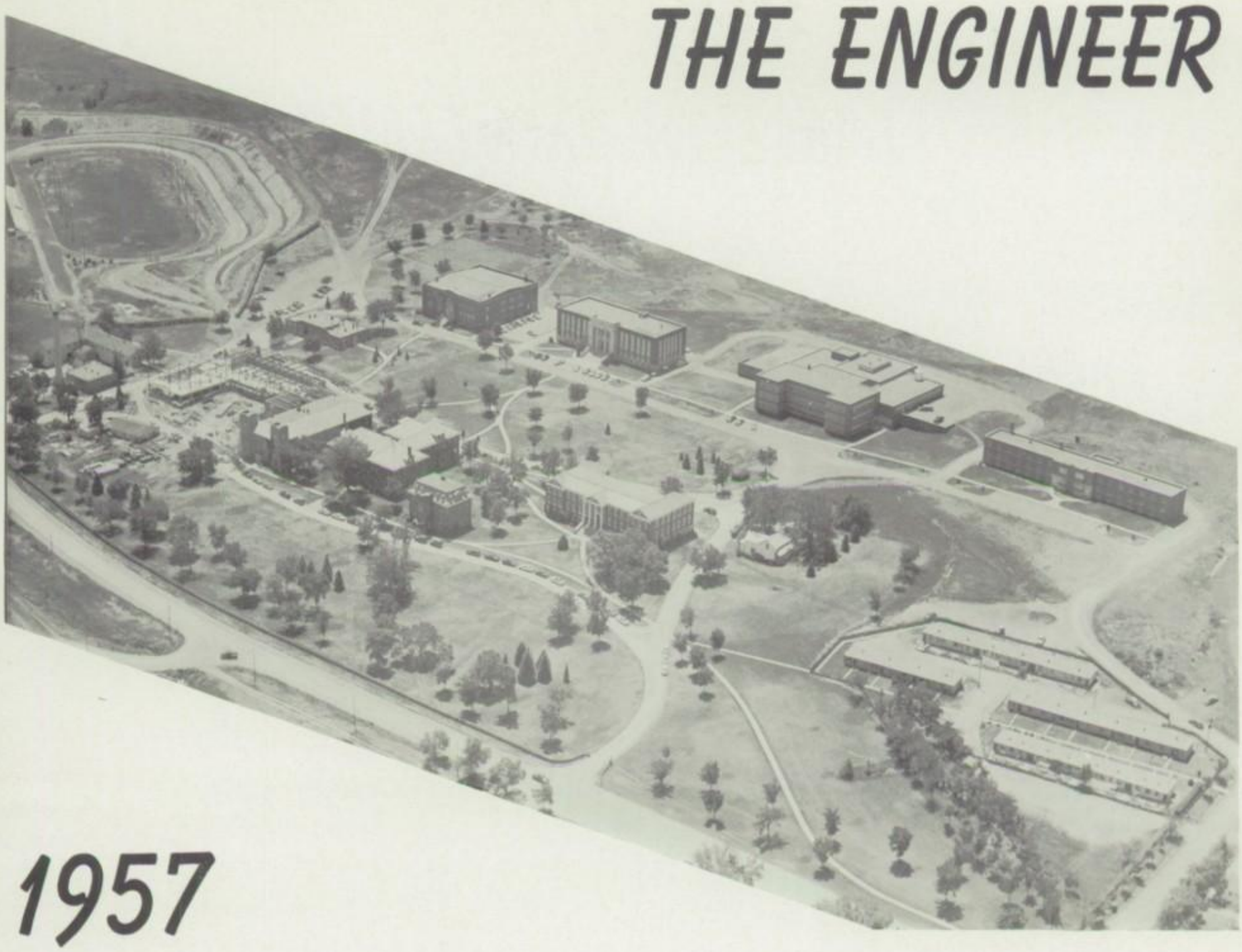
# THE ENGINEER

1957

# THE ENGINEER



1957

SOUTH DAKOTA
SCHOOL OF MINES AND TECHNOLOGY

RAPID CITY, SOUTH DAKOTA

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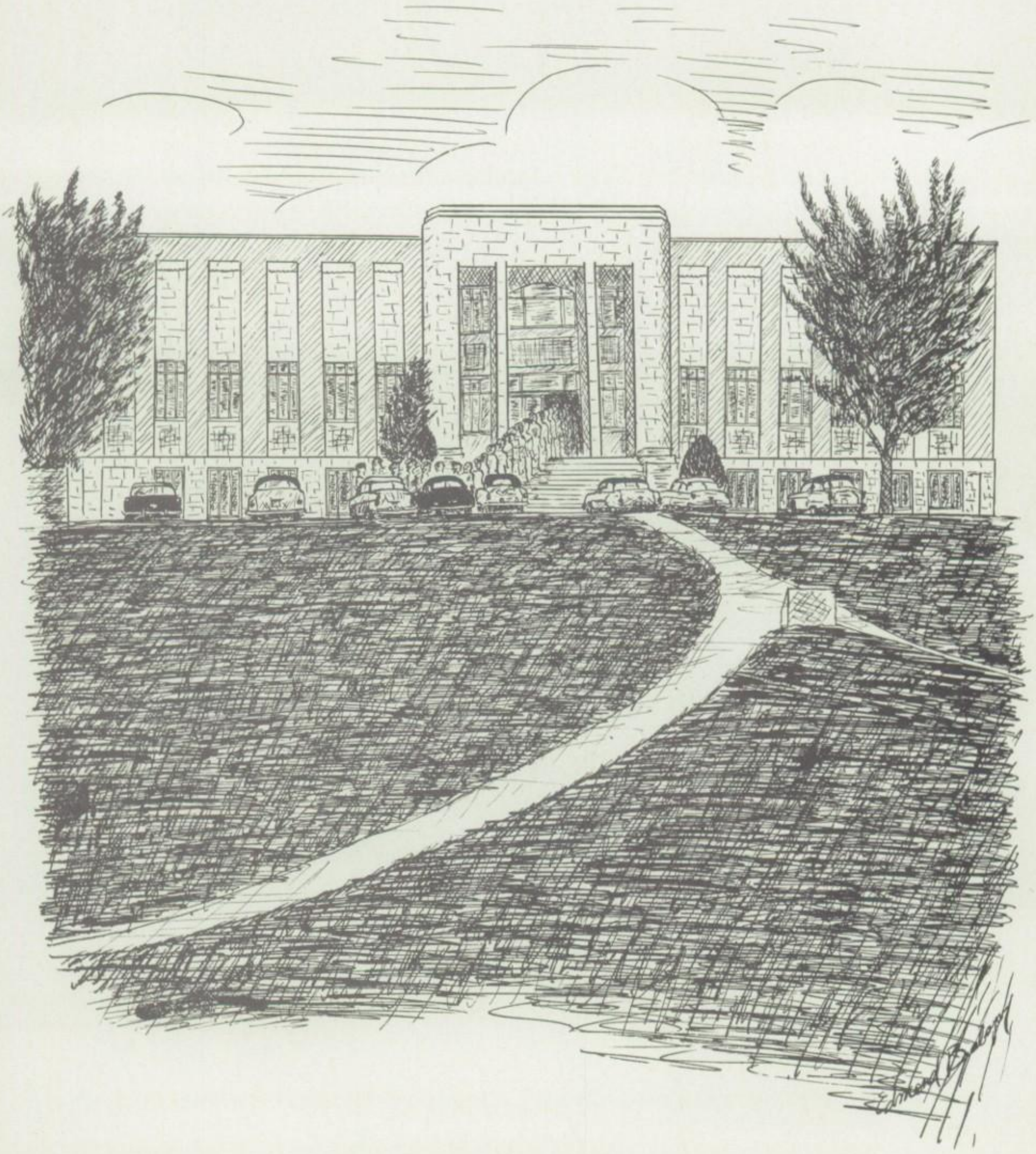
# FACULTY AND ADMINISTRATION



# THE PRESIDENT

FAY L. PARTLO

# ADMINISTRATION

E. D. Dake, Vice-president

L. R. Palmerton, Dean of Students

R. H. Moore, Registrar

J. T. Thomas, Business Manager

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R. F. Heckman, Dept. Head

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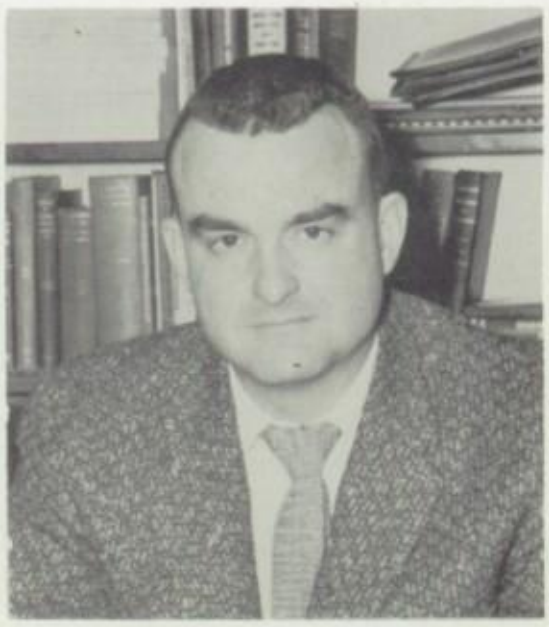
W. V. Coyle, Assoc. Prof.

D. A. Thorson, Assoc. Prof.

A. C. Scheer, Assoc. Prof.



T. H. Wright, Inst.

L. Wyman, Asst. Prof.

R. Meador, Inst.

G. Tveito, Inst.

# ELECTRICAL ENGINEERING

W. A. Hixson, Dept. Head

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C. W. Cox, Asst. Prof.

W. Reuter, Inst.

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L. E. Boyd, Assoc. Prof.

H. H. Wells, Assoc. Prof.

W. H. Raff, Asst. Prof.

R. H. Knutson, Asst. Prof.

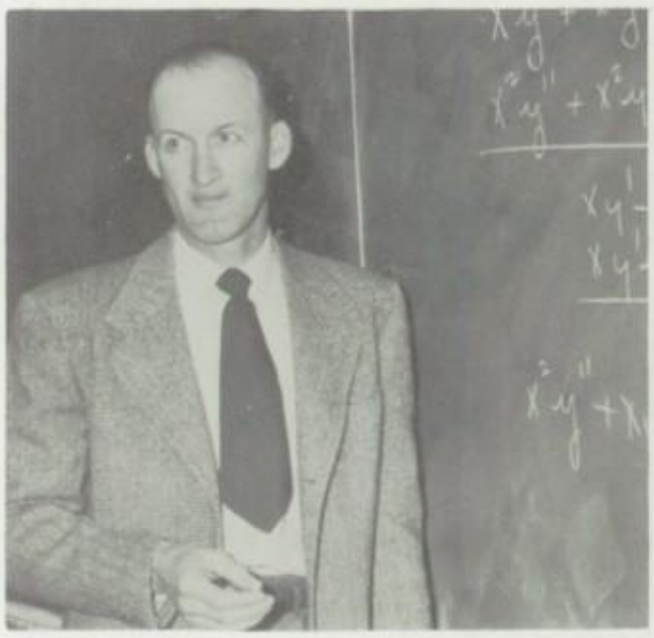
G. Platt, Inst.

# MATHEMATICS

Guy E. March, Dept. Head

R. E. Doutt, Assoc. Prof.

E. Swanson, Assoc. Prof.



C. L. Harbison, Assoc. Prof.

C. A. Grimm, Asst. Prof.

Mrs. M. Swanson, Inst.

# MECHANICAL ENGINEERING

E. R. Stensaas, Dept. Head

C. Tollinger, Assoc. Prof.

J. H. Cope, Assoc. Prof.

M. K. Jovanovic, Assoc. Prof.

G. Dunham, Inst.

# ROTC

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Capt. F. E. LeClear

Capt. E. C. Kelton

M/Sgt. Shin, SFC Vernon, SFC Houberg

# GEOLOGY

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J. P. Gries, Prof.

J. R. Macdonald, Assoc. Prof.

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J. D. Bump, Director

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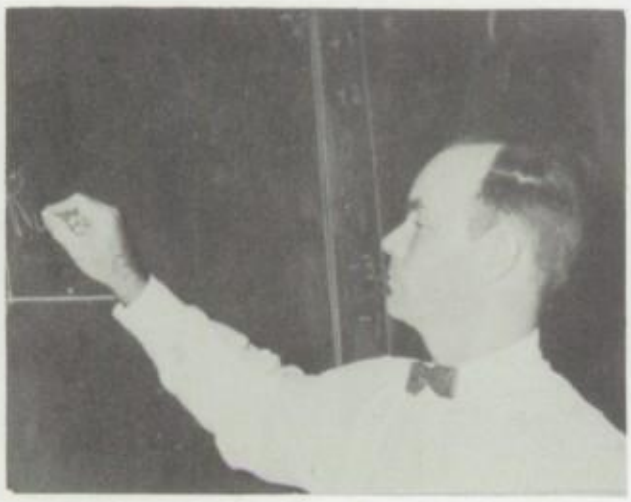
A. L. Lingard, Analyst

# PHYSICS

S. Macy, Dept. Head

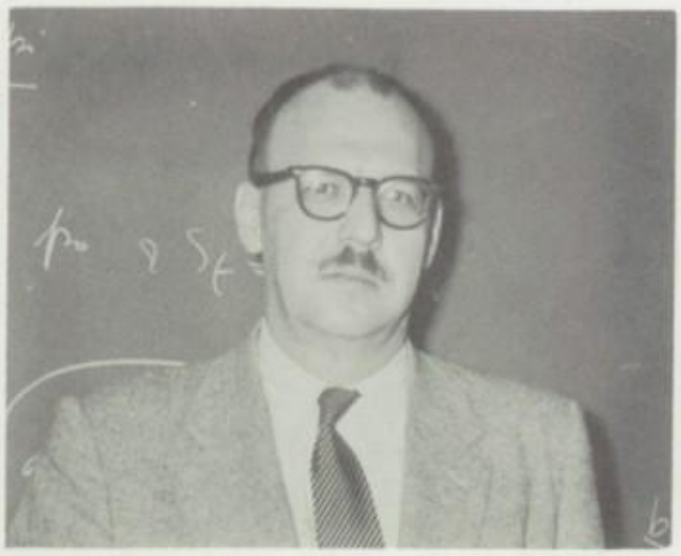
L. J. Eatherton, Asst. Prof.



C. B. Lowe, Asst. Prof.

S. Arlton, Inst.

# GENERAL ENGINEERING

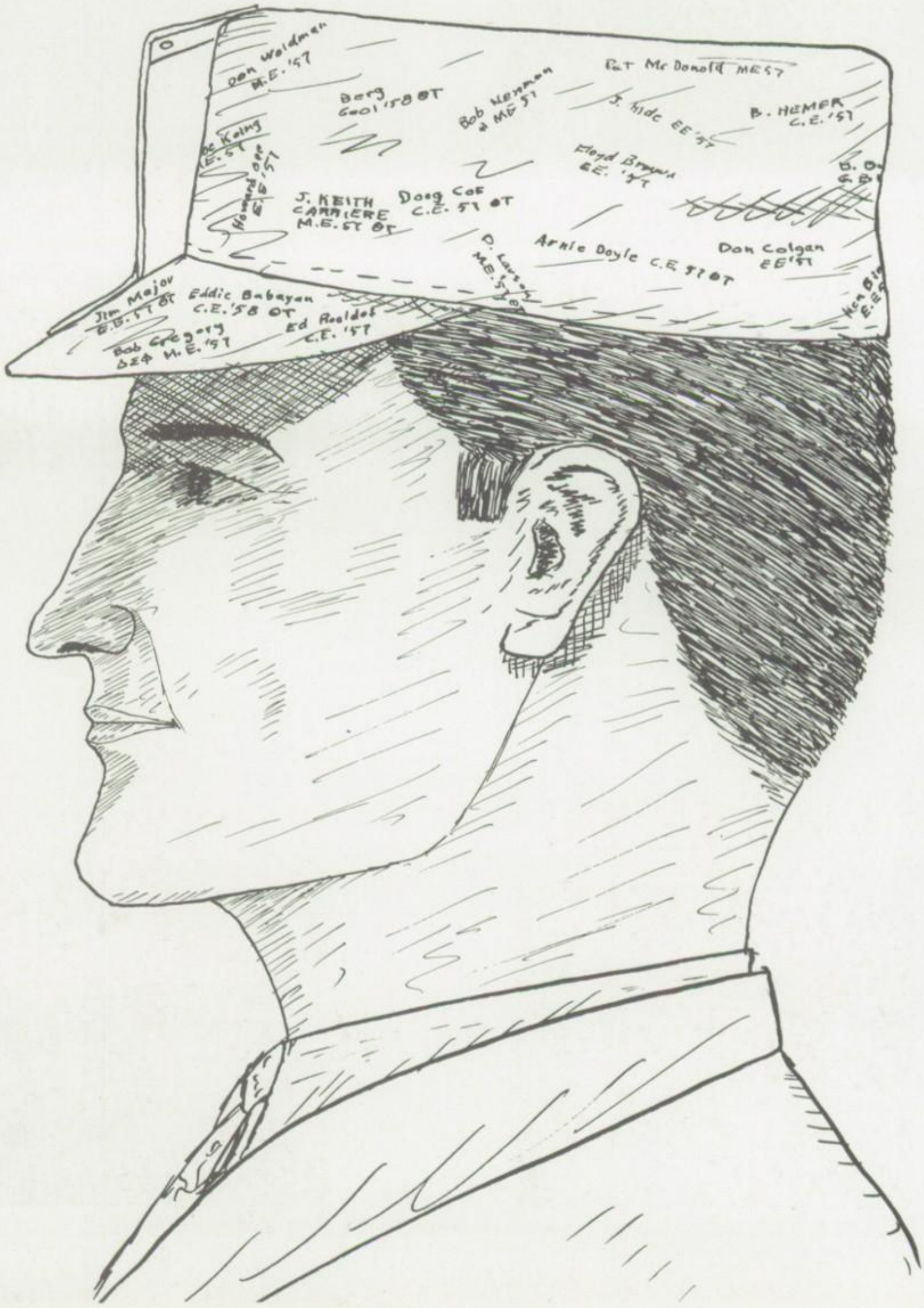


P. M. Stafford, Dept. Head

# BIOLOGY

M. Green, Dept. Head

# SENIORS


Don Waldman M.E. '57
Berg Geol '58 OT
Bob Newman ΔΨ ME 57
Pat Mc Donald ME 57
J. Hide EE '57
B. HEMER C.E. '57
Floyd Brown EE. '57
J. KEITH CARRIERE M.E. 57 OT
Doug Coe C.E. 57 OT
Arnie Doyle C.E. 57 OT
Don Colgan EE '57
Jim Major E.E. 57 OT
Eddie Babayan C.E. '58 OT
Bob Gregory ΔΣΦ M.E. '57
Ed Roldos C.E. '57

**Albert, Tom**
**Sioux Falls** **Geol. E.**
AIChE 2; AIMME 4; Drill and Crucible 2, 3, 4; "Engineer" Staff 1; Social Committee 1, 4; Dorm Council 1; Class Officer (President) 2; Track 1, 2; Intramural Sports 1, 2, 3, 4.

**Anderson, Donald W.**
**Rapid City** **Geol. E.**
AIMME 4; Drill and Crucible 2, 3, 4; Singing Engineers 1, 2; Rifle Club 1, 2.

**Anderson, R. C.**
**Rapid City** **E. E.**
Delta Sigma Phi 2, 3, 4; AIEE 4; Singing Engineers 1, 2, 3, 4; Intramural Sports 1, 2; Scabbard & Blade 4.

**Appleby, Ray**
**Mobridge** **M. E.**
Theta Tau 2, 3, 4; ASME 2, 3, 4; Class Officer (President) 4; Intramural Sports 2, 3, 4.

**Arcilise, Cass**
**Rapid City** **Geol. E.**

**Baltzer, Harry W.**
**Alpena** **C. E.**
ASCE 3, 4; Intramural Sports 3, 4.

**Bauch, Jack**
**Sioux Falls** **M. E.**
Delta Sigma Phi 1, 2, 3, 4; Sigma Tau 3, (President) 4; ASME 1, 2, 3, (Treasurer) 4; SAME 4; Dorm Council 2; Board of Control 3, 4; Intramural Sports 1, 2, 3; Who's Who 4; Scabbard & Blade 3, (President) 4.

**Bell, Harold**
**Flandreau** **M. E.**
Delta Sigma Phi 1, 2, 3, 4; ASME 1, 2, 3, (Treasurer) 4; "Tech" Staff 1.

**Benda, William**
**Britton** **E. E.**
Delta Sigma Phi 1, 2, 3, 4; AIChE 3, 4; SAME 3, 4; Band 1; Singing Engineers 4; Intramural Sports 1.

**Binger, Kenneth B.**
**Tulare** **E. E.**
Delta Sigma Phi 2, 3, 4; AIEE 3; IRE 4; Band 1; Track 1; Intramural Sports 1.

**Blood, Francis**
**Rapid City** **E. E.**
AIEE 4; IRE 4; Singing Engineers 1, 2; Intramural Sports 1, 4.

**Bohrer, Thomas**
**Rapid City** **Phys.**
Sigma Pi Sigma 3, 4; Sigma Tau 3, 4; "Tech" Staff 3, 4.

**Briggs, Raman C.**
**Holmen, Wisconsin** **Chem. E.**
ACS 2, 3; AIChE 2, (Vice-president) 3; (President) 4; Singing Engineers 2, (Secretary) 3; (President) 4; Intramural Sports 2; "Engin-aires" (quartet) 3, 4; Who's Who 4.

**Brown, Floyd**
**Sidney, Nebraska** **E. E.**
Delta Sigma Phi 3, 4; AIEE 2, 3, (Secretary) 4; IRE 2, 3, 4; Singing Engineers (Vice-president) 3; (Business Mgr.) 4; Class Officer (Vice-president) 3; Intramural Sports 2.

**Bump, James R.**
**Rapid City** **C. E.**
Theta Tau 2, 3, 4; ASCE 2, 3, 4; Track 1, 2, 4; Intramural Sports 3, 4; Scabbard & Blade 3, 4.

**Bush, Robert D.**
**Watertown** **C. E.**
Theta Tau 2, 3, 4, ASCE 3; "M" Club 2, 3, 4, Track 3, 4, Intramural Sports 1, 2, 3, 4.

**Buttemeier, C. Joseph**
**Spearfish** **E. E.**
Theta Tau 3, 4; AIEE 3, 4; Singing Engineers 1, 2, 3, 4; Intramural Sports 3, 4.

**Carriere, J. Keith**
**Buffalo** **M. E.**
Theta Tau 1, 2, (House Mgr.) 3, 4; Sigma Tau 3, 4; ASME 1, 2, 3, 4; "Engineer" Staff (Editor) 4; "Tech" Staff 1; Intramural Sports 1, 2, 3, 4.

**Cetrone, Ronald A.**
**Sheridan, Wyoming** **Geol. E.**
Delta Sigma Phi 2; Drill and Crucible 3, 4; Band 1, 2; Singing Engineers 1, 2; Social Committee 2; Intramural Sports 1, 2, 3, 4; Tennis Champ 4.

**Chang, Eugene**
**Taipei, Formosa** **M. E.**
Sigma Tau 4; ASME 3, 4.

**Chieslar, Jack E.**
**Sheridan, Wyoming** **Min. E.**
Delta Sigma Phi 1, 2, 3, 4; AIMME 3, 4; SAME 4; Drill and Crucible 2, 4.

**Christensen, James M.**
**Lead** **G. E.**
"Tech" Staff 3; Flying Club 3; Football 1, 2, 3, 4; Track 1, 2; Intramural Sports 1, 2, 3, 4.

**Coe, Douglas G.**
**Custer** **C. E.**
Theta Tau 3, 4; ASCE 1, 2, 3, (Treasurer) 4; Singing Engineers 3; "M" Club 3, 4; Football 3; Intramural Sports 2, 3, 4; Scabbard & Blade 3, (Vice-president) 4.

**Coleman, William**
**Wichita, Kansas** **Min. E.**
ASCE 3, 4; SAME 4; Drill and Crucible 4; Intramural Sports 4.

**Colgan, Donald**
**Hermosa** **E. E.**
AIEE 4.

**Dean, Roger**
**Sioux City, Iowa** **C. E.**
ASCE 3, 4.

**DesJarlais, Gerald J.**
**Kadoka** **C. E.**
Theta Tau 1, 2, 3, 4; ASCE 4; Drill and Crucible 1, 2; Band 1, 2, 3; Singing Engineers 1, 2, 3, 4; Intramural Sports 2, 4; "Engin-aires" (quartet) 1, 2, 3, 4.

**Dross, J. F.**
**Omaha, Nebr.** **M. E.**

**Dunham, Nancy Ward**
**Rapid City** **E. E.**
Eta Kappa Nu 3, (Corresponding Secretary) 4; AIEE 3, 4; SAME 3, 4; Class Officer (Secretary) 1.

**Fawcett, Harland**
**Ree Heights** **C. E.**
Triangle 2, 3, 4; Sigma Tau 3, (Recording Secretary) 4; ASCE (Vice-President) 3, 4; Wrestling 2; Intramural Sports 1, 2, 3, 4.

**Francis, Jerry**
**Sioux Falls** **M. E.**
Delta Sigma Phi 2, 3, 4; ASME 2, 3, 4; Intramural Sports 1, 2, 3, 4.

**Gates, Marvin A.**
**Pukwana** **M. E.**
ASME 1, 2, 3, 4; "Engineer" Staff 2; Intramural Sports 2.

**Gish, Robert**
**Carlisle, Pennsylvania** **C. E.**
ASCE 2, 3, 4; SAME 2, 3, 4.

**Goodart, Charles**
**Hill City** **G. E.**

**Gregory, Robert M.**
**Yankton** **M. E.**
Delta Sigma Phi 2; (Treasurer) 3, (President) 4; Sigma Tau 3, (Treasurer) 4; ASME 1, 2, 3, 4; "Tech" Staff 1; Board of Control 4; Intramural Sports 1, 2, 3, 4; Who's Who 4; Scabbard & Blade 3; (Treasurer) 4.

**Gupta, Mohinder L.**
**Jagraon, Panjab, India** **Met. E.**
AIMME 3, 4; Drill and Crucible 4.

**Hagen, James**
**Sioux Falls** **Chem.**
Delta Sigma Phi 1, 2, 3, 4; Dorm Council 1; Basketball 1; Intramural Sports 1, 2, 3, 4.

**Hanson, Lee**
**Clark** **C. E.**
Triangle 3, 4; ASCE 2, 3, (President) 4; Singing Engineers 3, (Vice-President) 4; Who's Who 4; (Chairman) Convocation Comm.; (Ed.) Student Handbook 3.

**Hawkins, Daryl**
**Mellette** **G. E.**
Theta Tau 2, 3, 4; ASCE 3; ASME 2, 4; SAME 2, 3, 4; Dorm Council 3; Board of Control 3, 4; Wrestling 2; Intramural Sports 2, 3, 4.

**Heide, John**
**Sioux Falls** **E. E.**
AIEE 2; "Tech" Staff 1, 3; Intramural Sports 1, 2, 3, 4.

**Hemre, Botolf**
**Gudvangen, Norway** **C. E.**
ASCE 4

**Hicks, Robert**
**Marvin** **E. E.**
AIEE 3, 4; IRE 1, 2, 3, 4; Singing Engineers 1, 2, 3; "Tech" Staff 1, 2, 3; Intramural Sports 1, 3, 4.

**Hoines, Ellis**
**Langford** **E. E.**
AIEE 4; IRE 3.

**Horner, Jerome**
**Parker** **Chem.**
Delta Sigma Phi 2, 3, 4; Sigma Tau 3, 4; ACS 3, 4; Band 1.

**Isaak, Harlan**
**Tripp** **Phys.**
Delta Sigma Phi 1, 2, 3, 4; Sigma Pi Sigma 3, (Secretary) 4; Sigma Tau 3, 4; Singing Engineers 2, 3, 4; Intramural Sports 1, 2; Who Who 4; "Engin-aires" (quartet) 3, 4.

**Johnson, Charles F.**
**Rapid City** **Geol. E.**
AIMME 3, 4; Drill and Crucible 2, 3, 4.

**Jundt, Clyde H.**
**Eureka** **C. E.**
ASCE 2, 3, 4; SAME 4; Singing Engineers 1, 3, 4; Flying Club 3, 4; Intramural Sports 1, 2.

**Junker, Don A.**
**Gayville** **Met. E.**
AIMME 4; Drill and Crucible 2, 3, 4.

**Kane, Byron L.**
**Sisseton** **Geol. E.**
AIMME 2, 3, 4; Drill and Crucible 2, 3, 4; Football 3.

**Kelly, Al**
**Sioux Falls** **Geol. E.**
AIMME 3, 4; Drill and Crucible 2, 3, 4; Flying Club 3, 4; Intramural Sports 1, 2, 3, 4.

**Kidner, Everett Linn**
**Rapid City** **C. E.**
AIChE 2; ASCE 4; Intramural Sports 1, 2, 3, 4.

**Kim, Duk Sun**
**Seoul, Korea** **M. E.**
ASME 3.

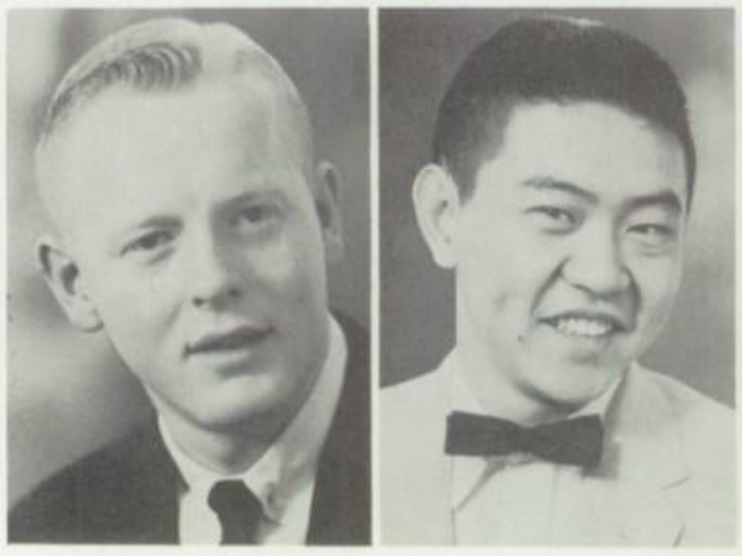
**Kinney, Patrick J.**
**Sioux Falls** **Chem. E.**
Sigma Tau 3, 4; ACS 3, 4; AIChE 1, 2, 3, 4; Dorm Council (Vice-president) 3; Intramural Sports 1, 2, 3, 4.

**Koenig, Roy C.**
**Winner** **M. E.**
ASME 4.

**Larsen, Dorwin**
**Centerville** **M. E.**
Theta Tau 1, 2, (Treasurer) 3, (Vice-president) 4; ASME 3, 4; "M" Club 1, 2, 3, 4; Dorm Council 1; Student Body President 4; Football 1, 2, 3, 4; Track 1; Intramural Sports 1, 2, 3, 4; Who's Who 4.

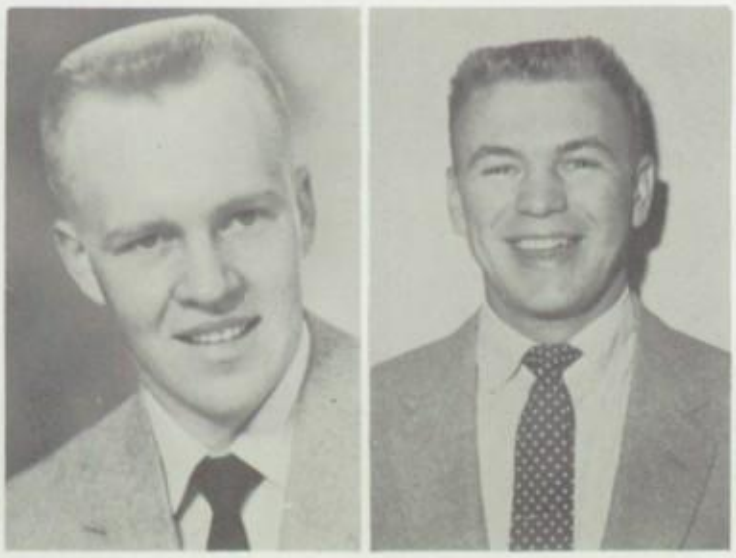
**Liffengren, Alan**
**Pierre** **M. E.**
Triangle 1, 2, 3, (President) 4; Sigma Tau 3, 4; ASME 2, (Treasurer) 3; (President) 4; Band 1, 2, (Vice-president) 3; (President) 4; "M" Club 3, 4; Class Officer (President) 3; Basketball 1; Track 1, 2; Intramural Sports 1, 2, 3, 4; Who's Who 4.

**Liu, Ching Shi**
**Taipei, Formosa** **M. E.**
Sigma Tau 4; ASME 3.



**McDonald, Patrick L.**
**Wood** **M. E.**
ASME 3, 4; Drill and Crucible 2; Intramural Sports 1, 2.

**McGee, Marlen W.**
**Ree Heights** **G. E.**
Eta Kappa Nu 2, 3, (Vice-president) 4; Sigma Tau 3, 4; ASME 3; "M" Club 1, 2, 3, (Vice-president) 4; Class Officer (Secretary) 2; Track 1, 2, 3, 4; Intramural Sports 1, 2, 3, 4.

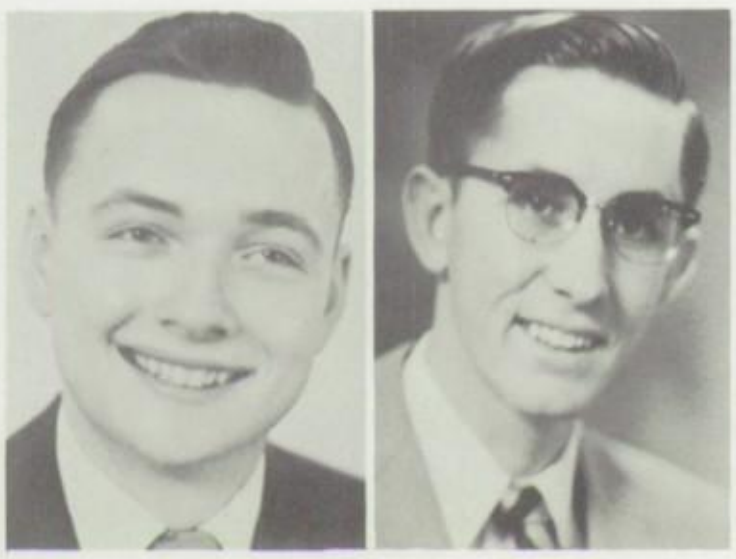


**Major, Jim R.**
**Deadwood** **E. E.**
Theta Tau 2, 3, 4; Eta Kappa Nu 3, (Recording Secretary) 4; Sigma Tau 3, 4; AIEE 2, 3, (Treasurer) 4; IRE 4; Dorm Council (Sec.-treas.) 2; Intramural Sports 1, 2, 3, 4.

**Malwitz, Dennis**
**Vinton, Iowa** **Met. E.**
Delta Sigma Phi 2, 3, 4; AIMME 2, 3, 4; SAME (Vice-president) 4; Drill and Crucible 1, 2, 3, (Secretary) 4; "Tech" Staff 3, 4; "M" Club 1; Track 1; Intramural Sports 4.

**Marble, Jon**
**Flandreau** **E. E.**
Delta Sigma Phi 2, 3, 4; AIChE 2, 3, 4; Singing Engineers 1, 2, 3; Intramural Sports 1.

**Martin, Kenneth**
**Burke** **M. E.**
Delta Sigma Phi 2, 3, 4; ASME 3, 4.



**May, Bill**
**Sturgis** **E. E.**
Eta Kappa Nu 3, 4; Sigma Tau 3, 4; AIEE 3, 4; IRE 3, 4; Intramural Sports 2; Who's Who 4.

**Meyer, Kenneth**
**Belle Fourche** **E. E.**
Eta Kappa Nu 4; Sigma Tau 3, 4; AIEE 3, 4; IRE 4; "Engineer" Staff 2; Flying Club 4.

**Miller, William**
**Watertown** **Met. E.**
AIMME 3, 4; Drill and Crucible 2, 3, 4; Intramural Sports 1, 2, 3, 4.

**Moen, Monroe**
**Sioux Falls** **Phys.**
Sigma Pi Sigma 3, 4; Sigma Tau 3, 4; IRE 1; College "Y" 4.

**Munson, Gerald M.**
**Rapid City** **E. E.**
Theta Tau 2, 3, 4; Eta Kappa Nu 3, (Vice-president) 4; Sigma Tau 3, 4; IRE 3, (Treasurer) 4; Intramural Sports 2; Scabbard and Blade 3, 4.

**Newman, Bob**
**Rockham** **M. E.**
Triangle 3, 4; ASME 3, 4; Intramural 3, 4.

**Nissen, William Irwin**
**Sidney, Nebraska** **Met. E.**
Delta Sigma Phi 2, 3, 4; AIMME 3, 4; SAME (President) 4; Drill and Crucible 2, (Treasurer) 3, 4; Intramural Sports 2; Scabbard & Blade 4.

**Nold, Don**
**Gettysburg** **M. E.**
Delta Sigma Phi 2, 3, 4; ASME 2, 3, 4; Singing Engineers 1, 2, 3, 4; Class Officer (Vice-president) 4; Intramural Sports 1, 2.

**Noss, Roger L.**
**Spearfish** **C. E.**
Theta Tau 3, 4; ASCE 3, 4; Band 1, 2, 3, 4; Singing Engineers 1, 2, 3, 4; Intramural Sports 1, 2, 3, 4.

**Opp, Howard A.**
**Gettysburg** **E. E.**
IRE 3, 4; Band 3.

**Parks, Charles**
**Rapid City** **E. E.**
Sigma Tau 3, 4; AIEE 3, (President) 4; IRE 3, 4; Track 1; Wrestling 1, 3, 4; Intramural Sports 4.

**Paschal, Lawrence**
**Winston-Salem, North Carolina** **Geol. E.**
AIMME 4; Drill and Crucible 3, 4.

**Pecha, Robert L. M.**
**Elk Point** **C. E.**
Theta Tau 3, 4; ASCE 2, 3, 4; SAME 2, 3; Band 1, 2; Singing Engineers 1, 2, 3, 4; Football 2; Intramural Sports 1, 2, 3; Scabbard & Blade 3, 4.

**Pesall, Dennis J.**
**Lilly** **E. E.**
AIEE 2, 3, 4; Wrestling 2, 4.

**Potter, Lloyd**
**Rapid City** **Geol. E.**
Delta Sigma Phi 2, 3, 4; AIMME 3, 4.

**Potter, Willard**
**Seneca** **C. E.**
ASCE 2, 3, 4; SAME 4; "M" Club 1, 2, 3, (Secretary) 4; Flying Club 4; Track 1, 2, 3, 4; Wrestling 3, 4; Intramural Sports 2; Scabbard & Blade 4; Rifle Team 1, 2, (Vice-president) 3, 4.

**Rath, Ralph**
**Berkeley, California** **G. E.**
Triangle 4; ASME 4; SAME 3; Intramural Sports 3, 4.

**Rinehart, James D.**
**Mobridge** **Phys.**
Sigma Pi Sigma 3, 4.

**Robertson, Thomas**
**Sioux Falls** **Min. E.**
AIMME 2, 3, 4; Drill and Crucible 2, 3, (President) 4; "Tech" Staff 3; "M" Club 1; Class Officer (Treasurer) 3, 4; Football 1; Intramural Sports 1, 2, 3, 4; Who's Who 4.

**Rudloff, Edwin**
**Canton** **C. E.**
Sigma Tau 3, 4; ASCE 3, 4; Flying Club 3, 4.

**Sanders, Ronald**
**Bridgeport, Nebraska** **C. E.**
ASCE 3, 4; Track 2, 3; Intramural Sports 2, 3, 4.

**Saunders, Richard**
**Aberdeen** **E. E.**
AIEE 3, 4; IRE 4; Intramural Sports 4; Scabbard & Blade (Secretary) 4.

**Schatz, Ben**
**Rapid City** **C. E.**
ASCE 3, 4.

**Schmidt, Robert**
**Canistota** **Min. E.**
AIMME 3, 4; Drill and Crucible 2, 3, 4; "Tech" Staff 2, 3; Social Committee 3, (Chairman) 4; Who's Who.

**Schneider, John A.**
**Rapid City** **M. E.**
ASME 1, 2, 3, 4.

**Schwichtenberg, Daryl**
**Tulare** **M. E.**
ASME 1, 2, 3, 4.

**Shyne, Norman A.**
**Rapid City** **E. E.**
Eta Kappa Nu 4; Sigma Tau 3, 4; AIEE 3, 4; IRE 3, 4; Intramural Sport: 1.

**Smith, Joe**
**Rapid City** **Min. E.**
AIMME 3, 4; Drill and Crucible 1, 2, 3, 4; "M" Club 1, 2; Football 1; Track 1; Wrestling 2.

**Smith, Melvin**
**Rapid City** **Phys.**
Theta Tau 2, (Corresponding Secretary) 3, (Regent) 4; Sigma Pi Sigma 3, (Vice-president) 4; Sigma Tau 3, (Historian) 4; Social Committee 2, 3, 4; Who's Who 4; Ethics Committee 3, 4.

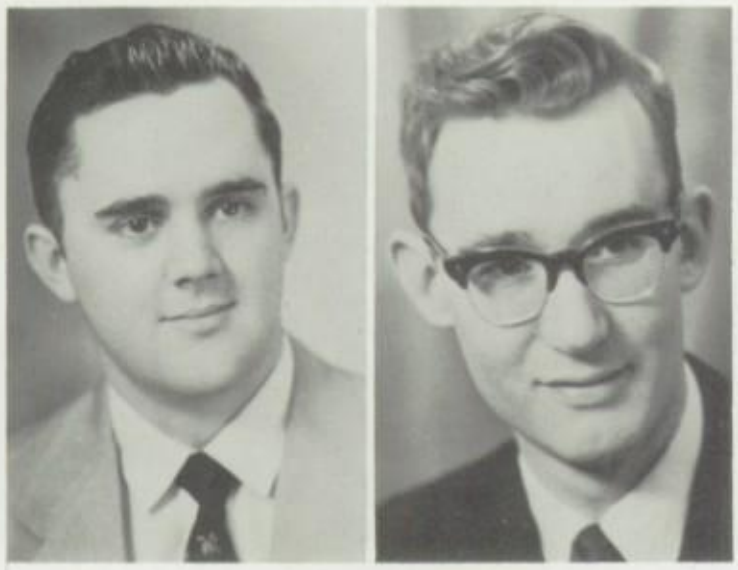
**Spars, Byron Gale**
**Sioux Falls** **Chem. E.**
Delta Sigma Phi 2, 3, 4; Sigma Tau 3, 4; ACS 2, 3, 4; AIChE (Secretary) 3, (Vice-president) 4; Intramural Sports 1, 2, 3, 4; Who's Who 4.

**Spiece, Charles**
**Columbus, Nebraska** **Geol. E.**
Triangle 1, 2, 3, (House Note Treasurer) 4; AIMME 4; Drill and Crucible 3, 4; "M" Club 1, 2, 3, (President) 4; Board of Control 1, (Secretary) 2; Football 1, 2, 3; Basketball 1; Track 1, 2, 3; Wrestling 3; Intramural Sports 1, 2, 3, 4; Scabbard & Blade 4.

**Spring, Stanley G.**
**Watertown** **Geol. E.**
Theta Tau 2, 3, 4; AIMME 4; Drill and Crucible 2, 3, 4; Intramural Sports 2, 3, 4.

**Stangeland, Maynard**
**Worthington, Minnesota** **M. E.**
Triangle 1, 2, 3, (House Mgr.) 4; ASME 2, 3, (Vice-president) 4; "M" Club 1, 2, 3, 4; Football 1, 2, 3; Intramural Sports 1, 2, 3, 4.

**Steege, Lauren W.**
**Milbank** **Geol. E.**
Triangle 3, 4; AIMME 4; Drill and Crucible 1, 4; Band 1; Singing Engineers 1, 2, 3, 4; "Tech" Staff 2; Intramural Sports 1, 2, 3, 4.



**Stotelmeyer, Ronald**
**Rapid City** **Min. E.**
Theta Tau 2, 3, 4; AIMME 3, 4; Drill and Crucible 2, 3, 4.

**Sturgeon, Dave**
**Spearfish** **Geol. E.**
AIMME 3, 4; Drill and Crucible 2, 3, 4; Band 1.

**Thomas, Herbert W.**
**Pierre** **Chem. E.**
AIChE 2, 3, 4; "M" Club 4; Wrestling 4; Intramural Sports 1, 2, 3, 4.

**Thompson, James A.**
**Redfield** **C. E.**
Triangle 1, 2, 3, 4; ASCE 2, 3, 4; "M" Club 1, 2, 3, 4; Social Commiteee 2, (Chairman) 4; Board of Control 2, 3; Football 1, 2, 3; Basketball 1, 2; Intramural Sports 1, 2, 3, 4; Who's Who 4.

**Urquhart, Donald**
**Huron** **G. E.**

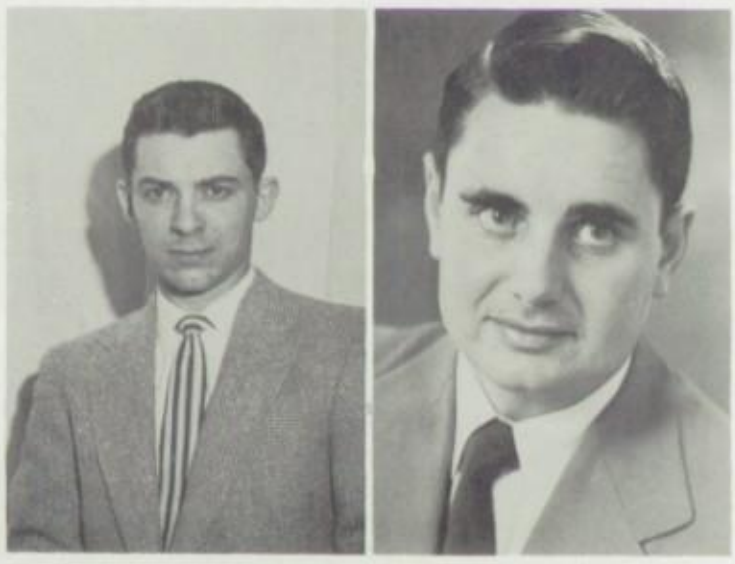
**Varilek, Ronald D.**
**Custer** **C. E.**
ASCE 3, 4; "Engineer" Staff (Co-Editor) 3; "M" Club 1, 2, (Secretary) 3, 4; Football 1, 2, (Captain) 3, (Captain) (All-conference back) 4; Intramural Sports 1, 2, 3, 4; Who's Who 4; Student Athletic Board (Chairman) 4.

**Vigoren, LaVerne**
**Buffalo** **Geol. E.**
AIMME 3, 4; Drill and Crucible 3, 4; Intramural Sports 1, 2, 3, 4.

**Waldman, Donald**
**Onaka** **M. E.**
Sigma Tau 3, (Secretary) 4; ASME 1, 2, 3, 4; "Engineer" Staff 2, 4; "Tech" Staff 1, 2, 3, (Editor) 4; Dorm Council 3, (President) 4; Intramural Sports 1, 3, 4; Who's Who 4.

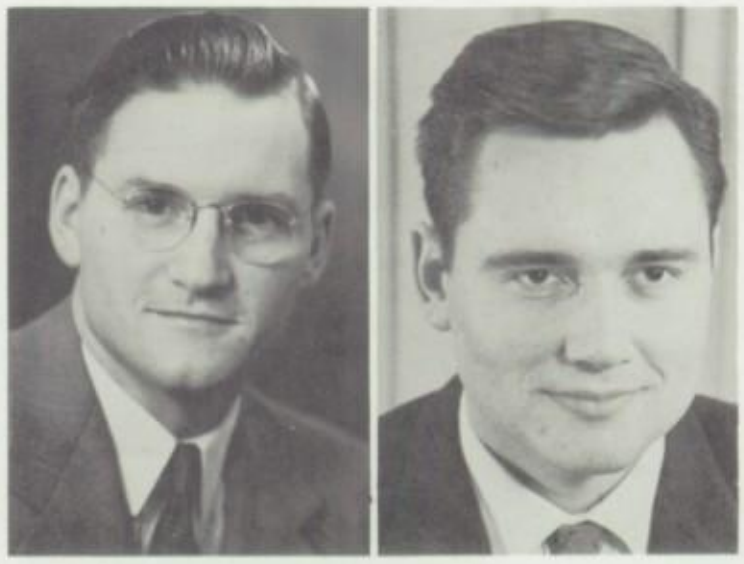
**Warvi, Martin M.**
**Lead** **C. E.**
Delta Sigma Phi 2, 3, 4; ASCE 2, 3, (Secretary) 4; "Tech" Staff 1; "M" Club 1, 2; Track 1, 2; Intramural Sports 1.

**Waterland, Tom**
**Britannia Beach, B. C., Canada** **Min. E.**
Theta Tau 2, 3, 4; AIMME 3, 4; Drill and Crucible 1, 2, 3, 4; Intramural Sports 1, 2, 3, 4.



**Welter, Richard**
**Huron** **C. E.**
Triangle 1, 2, 3, 4; Sigma Tau 3, 4; ASCE 3, 4; "M" Club 1, 2, 3, 4; Football 1, 2, 3; Intramural Sports 1, 2, 3, 4.

**Wertz, Carl**
**Cresbard** **E. E.**
Sigma Tau 3, 4; AIEE 3, 4; IRE 4.



**Wilsey, James**
**Pedro** **C. E.**
Triangle 3, 4; ASCE 3, 4; Intramural Sports 4.

**Wilson, Alden**
**Rapid City** **E. E.**
Delta Sigma Phi 2, 3, 4; AIEE 2, 3, 4; AIMME 1; IRE 3, 4; Band 1; Football 2; Track 2.

**Yuill, William**
**Newell** **Chem.**

**Zoutte, A. Andre'**
**Sheridan, Wyoming** **Met. E.**
Delta Sigma Phi 1, 2, 3, 4; AIMME 2, 3, 4; Drill and Crucible 2, 3, (Vice-president) 4; Flying Club 4; American Society for Metals 2, 3, 4.

## UNPHOTOGRAPHED SENIORS

Fleet Stanton

Don Stork

Engineering Building

Administration Building

# JUNIORS

# JUNIORS

Jim Adams
Tad Addy
Don Almen
Norvan Allen

Roger Anderson
Stan Arlton
Ed Babayan
Francis Bakula

John Baranski
Stan Barbas
L. J. Berg
Richard Berg

Chuck Bietry
George Bjerke
Harry Bolam
Burt Bomhoff

Algernon Borszich
Eldon Bowen
Math Brandner
Daryl Briscoe

# JUNIORS

Darral Brooks
Dick Buck
John Burggraff
Wayne Burk

Eugene Byrum
Russell Bywater
Pat Callan
Tae Chung

Francis Coulson
Bob Davee
Doug Devine
Peter Dexter

Phil Dickson
Darryle Dougherty
Dick Dunwiddie
Jim Eade

Fred Ehrman
Chuck Elrod
Jim Emch
Per Tefre

# JUNIORS

Jim Erickson
Phil Fenner
Mike Finkel
DeWayne Finley

James Forbes
Don Freeland
Dave Fritz
George Garlick

Derald Gellhaus
Mel Glerup
William Glover
Murrell Halstead

Floyd Harris
Roland Harris
Lester Hash
Joe Hickenbottom

Bill Hill
Ron Hinker
Darwin Hocking
Don Houck

# JUNIORS

Jim Howder
George Huettl
Leo Hughes
Jerome Hust

Dick Iltis
Jack Ingwerson
Paul Jorgenson
Jim Joyce

Donald Kachelhoffer
Roger Kiel
Bob Kelley
Leo King

Everett Kjerulff
David Knapp
Melvin Kocer
Jon Kohlhaas

Patrick Komiske
Alvin Koster
Russell Krause
Gerald Kreuger

# JUNIORS

Verne LeCocq
Ancel Lewis
Andy Lipp
Donn Lobdell

Charles Lockwood
Harry Lukkes
Tom Lyons
Jim McBride

Gale McQuate
Pavan K. Malhotra
Errol Matzke
Orval Meier

Robert Minter
Forrest Myhres
Bill Nagel
Harold Nelson

Neil Nerison
Robert Newcomb
Robert Nicklin
James Ogg

# JUNIORS

Roger Ollenburg
Zene Palen
Russell Palmer
David Papcke

Joe Pesek
Bob Pletka
Joe Pletka
Gene Poch

Roger Purrington
Bob Quintal
Roger Rasmussen
Donald Reed

Bill Reinsmith
Gil Rennhack
Reuben Rieger
Louis Riemenschneider

John Ritter
Louis Rosenberg
David Rozendal
David Ross

# JUNIORS

Hans Sacrison
Dallas Sass
Arnold Satterlee
Walter Schick

Dave Seefeldt
George Sherrill
Lowell Simons
Bob Sliper

Jim Smith
LeRoy Solid
Joe Stepon
Kenyon Sunding

Ernest Sundstrom
Wesley Sveum
Kare Erdal
Bill Timmerman

Hans Tinjar
Richard Todd
Robert Trautman
Bryce Troyer

# JUNIORS

Roy Trygstad
Glen Turechek
Tom Vance
Clark Vander Linden

John Udseth
Jon Waage
Dick Warder
James Webster

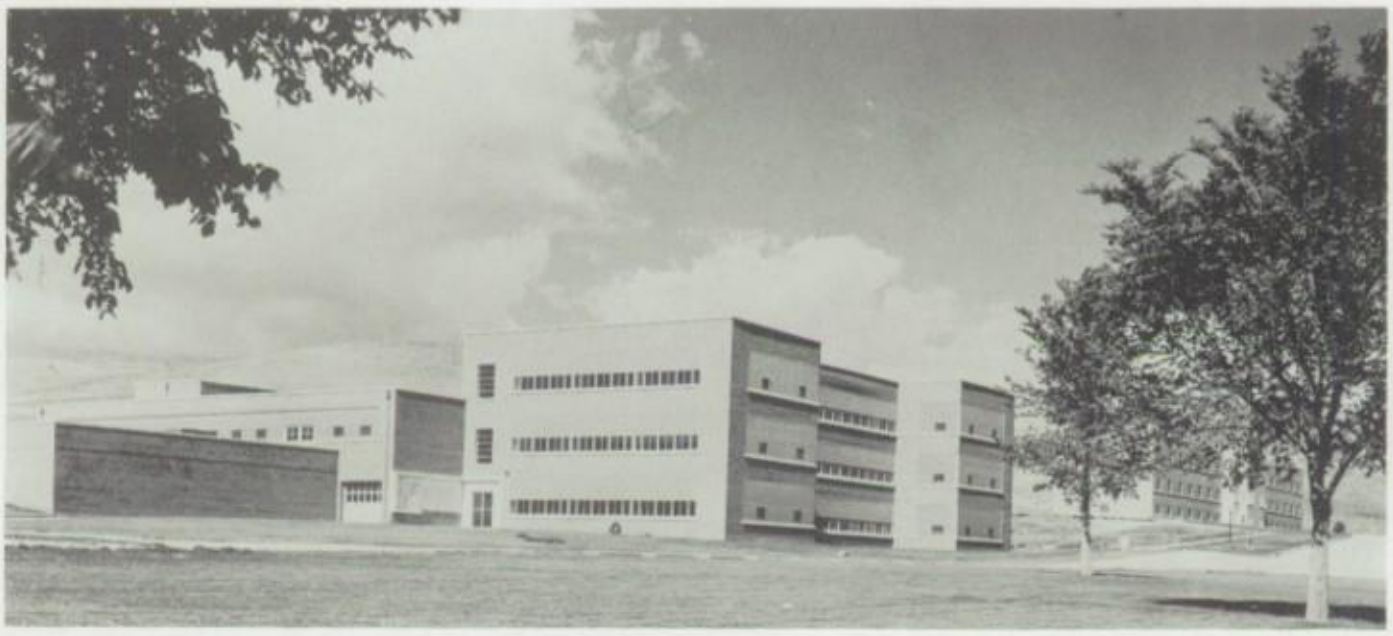
Keith Wellman
George Welsh
Curt Westly
Wayne Wilcox

Harry Wood
John Wooley
Roger Wolff
Robert Yahne

The North Row

## UNPHOTOGRAPHED JUNIORS

Ballou, W. D.
Banning, R. O.
Baumgartner, V. J.
Bearg, E. A.
Berenbach, E.
Brunson, N. R.
Calvert, W. M.
Conklin, R. R.
Cox, J. M.
Edwards, W. L.
Eisenbraun, W. G.
Hansen, L. B.
Hauptmann, D. L.
Hays, R. D.
Hoffman, P. A.
Johnson, C. L.
Johnson, H. E.
Klawiter, F. C.
Koskinen, P. K.
Larson, L. G.
Laughlin, D. E.
McDow, J.
Mannick, W. L.
Mendenhall, W. S.
Neller, C. M.
Ollerman, M. J.
Orr, D. E.
Orr, D. A.
Orts, D. H.
Outlaw, L. F.
Peacore, E. J.
Ranney, T. Z.
Roberts, F. D.
Shabram, R. M.
Shaughnessy, M. E.
Sherman, D. E.
Strasser, D. G.
Swarm, H. H.
Swenson, G. R.
Ulfers, S. E.
Van Alstine, J.
Vatshelle, J.
Wagner, R. D.
Weber, C. L.



Mechanical-Civil Engineering Building

Old Chemistry Building

# SOPHOMORES

# SOPHOMORES

James Adler
Dale Allen
George Anderson
Irving Anderson

Sherwin Artus
Warren Bamesberger
Ernest Baresch
Dorsey Barker

Bill Barth
Dick Becker
LeRoy Besler
Barry Bradshaw

Charles Braun
Kathleen Brickel
Erwin Brink
Dave Brost

Delmer Brown
Dean Brown
Mike Callan
John Campbell

# SOPHOMORES

Young Chae
Jim Christensen
Paul Clare
Jerry Clifford

Ed Coates
Bill Coddington
Willard Conley
Leon Cook

Jerry Dahl
Darrell Danielson
Cecil DeLange
L. D. Dempsey

Alfred Denny
Jerry Dixon
Ronald Dodson
Dick Donnelly

LeRoy Dosch
Rudy Dzubnar
Harold Erhman
Harley Emick

# SOPHOMORES

Ed Enright
Veryl Eshen
Merrill Evans
Fred Fawkes

Ray Ferguson
Terry Fiechtner
Harold Foglesong
Conrad Fuchs

Jack Gibeau
Paul Gnirk
G. C. Goesch, Jr.
Maynard Grande

Duane Gray
John Groen
Dave Grow
William Guenther

Duane Gustad
Floyd Haeuszer
Warren Hamm
Darrell Hampton

# SOPHOMORES

Hobart Hani
Watt Hanscom
Irvin Hauglum
John Hatch

Jim Hayes
Michael Hayes
Roger Hekrdle
Neil Hecht

Ed Hieb
Allan Hins
Bob Hollenbeck
Norm Howell

Guy Hubbard
Dave Huschke
Bob Jackson
Verner Johnson

Rod Johnson
Larry Johnson
Bob Jones
Paul Jones

# SOPHOMORES

Chris Jordan
Allan Joslyn
Pat Kappenman
Harvey Keating

Jack Keene
Wesley Kiel
Eldon Klingler
Galen Krebs

Ken Kronoveter
Emmett Kotrba
John Kukura
Clark Kurtz

Lynn Kurtz
John Lauer
Paul Lavato
Jim Lease

Quentin Lee
Bob Lerdal
Jerry Lloyd
Tom Lynch

# SOPHOMORES

Wayne McCollum
John McCorkle
Jim McKnight
Chaman Malhotra

Dave Malthouse
Ken Meeks
Newell Metzger
Jim Miller

Dale Moden
Lyle Mudge
Don Myers
Paul Noyes

Gary Olmsted
Marlin Olson
Tom Olson
Veldon Orr

Paul Otte
Jim Papike
J. Kent Parish
Wayne Pettyjohn

# SOPHOMORES

Jerry Phipps
Carol Pigney
Jerry Popowski
Tom Price

Stan Reed
Danny Reel
Bill Richardson
Dave Riesland

Dick Scherr
Dale Scheonfield
William Shrag
Dick Sheldon

John Shoemaker
Harvey Short
Don Sigdestad
Raj Singal

Monte Smith
Dave Sonstegard
Joe Spencer
Scott Stearns

# SOPHOMORES

Jim Steele
Conrad Sterkel
Phil Stewart
Landy Stinnett

Carl Strande
Wayne Sutherland
Morris Swanson
Ed Tegland

Vernon Terry
Bert Thomsen
James Tisdale
Ken Uherka

Virgil Van Deventer
Bob Varilek
Donald Vesely
Dick Vitters

Orville Weiszhaar
Wilford Westre
Dale Weskamp
Ren Whitaker

# SOPHOMORES

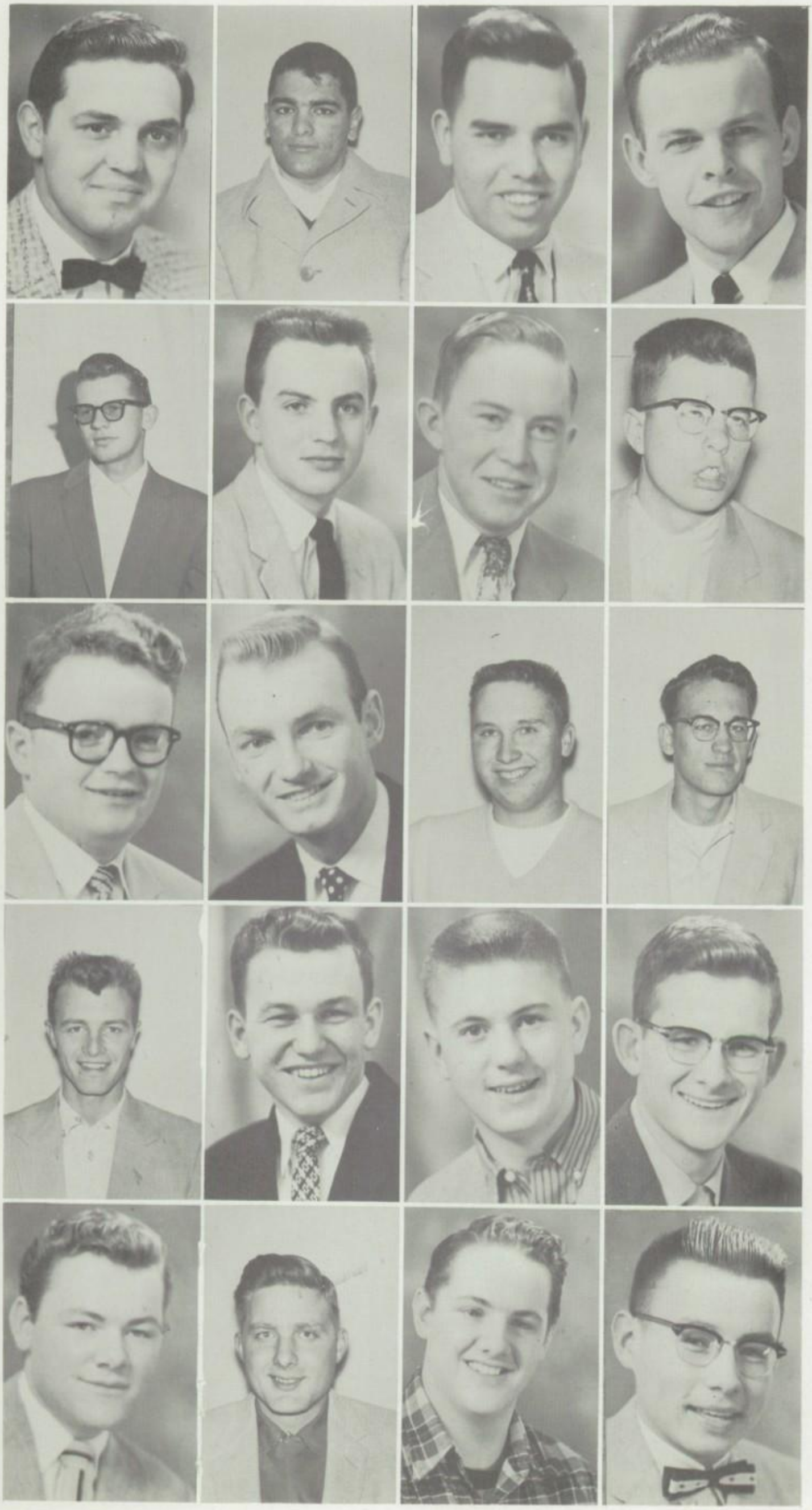
Tom White
Monte Widdoss
Doug Willett
Jim Willett

Howie Yeager
Chuck Yenglin
Jerry Zimmerman

## UNPHOTOGRAPHED SOPHOMORES

Aland, G. A.
Ankney, W. N.
Bell, M. D.
Benson, C. R.
Bruce, R. L.
Bush, L. F.
Dartt, D.
Davidson, D. A.
Ewoldt, D. R.
Felker, C. R.
Gilbertson, E. C.
Hampton, D. L.
Hehn, K. D.
Hinken, W. R.
Hittner, D. E.
Hopkins, J. L.
Iwan, H. F.
Johnson, B. R.
Keyser, G. W.
King, L. L.
Lee, R. C.
Lineau, P. J.
Linch, R. B.
Lundberg, H. H.
McCormick, W.
McGinnis, R. L.
McTighe, D. R.
Marsden, M. J.
Metz, K. E.
Miller, G. O.
Miller, J. J.
Mullan, J. C.
Niebrugge, D. L.
Oller, C. H.
Patraw, J. M.
Penn, D. W.
Pesek, R. A.
Posaas, F.
Ringrose, P. M.
Shanks, W. R.
Shue, P. H.
Smith, L. E.
Stewart, E. E.
Stienecker, G.
Swan, A.
Thommen, D. M.
Turner, G. G.
Veren, T. G.
Wattier, K. A.
Willmott, L. C.

# FRESHMEN



# FRESHMEN

Pete Aberle
Allie Albert
Marv Amiotte
Chuck Anderson

Kenneth Anderson
Jim Anderst
Jim Bailey
John Ballard

Ed Bane
Glenn Barber
Warren Barnum
Richard Bartels

Ken Bassett
Bruce Bertsch
Denny Bitz
Larry Blair

Tom Blatchford
Clinton Bock
Phil Boland
Leland Bordeaux

# FRESHMEN

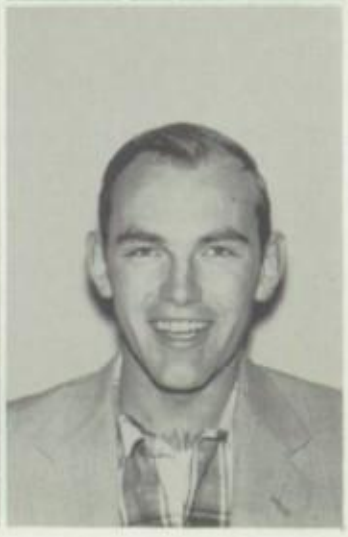
Richard Boub
Gary Brandriet
Ed Brodsky
Robert Brown

Dale Bryson
Bruce Burrell
Gary Catania
Terry Chase

James Clack
Carl Coad
Larry Colburn
Bill Collier

Tom Crooks
Robert Drabek
James Driver
Dave Eggers

Fred Fisher
Dave Foster
Ken Freemole
Bill Gabbert



# FRESHMEN

Marv Green
James Hancock
Frank Hansen
John Heacock

Howard Helgen
Jimmie Hennen
Darrell Henriks
Joe Hilt

Charles Holecek
Tsing-Ping Hsu
Jim Holman
Terence Hughes

Aron Johanson
Clayton Johnson
George Ketterling
Kermit Kidner

Darrell Krebs
Roy Kimbell
Wayne Kingsbury
John Korpi

# FRESHMEN

Don Lang
Vito Latkovich
Jim Lauer
H. P. Long

Claude Lott
Oscar Lund
Bob McCarty
Gerald McCulloch

Marvin McMaster
Art Marty
Harold Miller
Stuart Mitchell

Dave Mundt
Terry Myers
Don Nelson
Greg Nelson

Phil Nichols
William Oliver
Butch Olson
Doug Olson

# FRESHMEN

Duane Orr
Jay Ort
Walter Pase
Robert Pederson

Lee Peterson
Robert F. Peterson
Robert O. Peterson
Gene Raetz

Carl Ricketts
Robert Robbins
Sheldon Roberdeau
Duane Sander

Dante Santi
Garry Scharberg
Harold Schwartz
Robert Seaberg

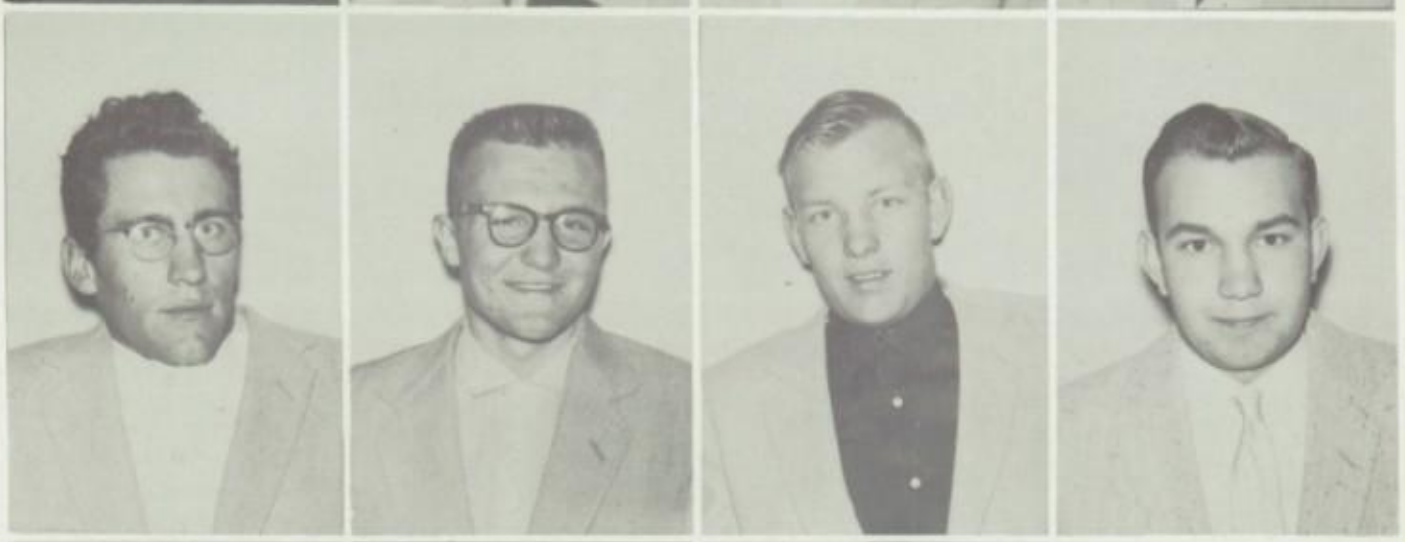
Pat Serry
Douglas Sinclair
Arthur Smelser
Duane Smith

# FRESHMEN

Don Solmonson
Bob Soukup
Ronald Springer
Bill Staton

Mel Steiger
Dick Stevens
Lavern Stevens
Ken Stone

Harold Sutherland
Eugene Tagtow
Jerald Trautman
Norton Tucker



Anthony Tysdal
Dave Uherka
Marlin Wagner
Don Wallace

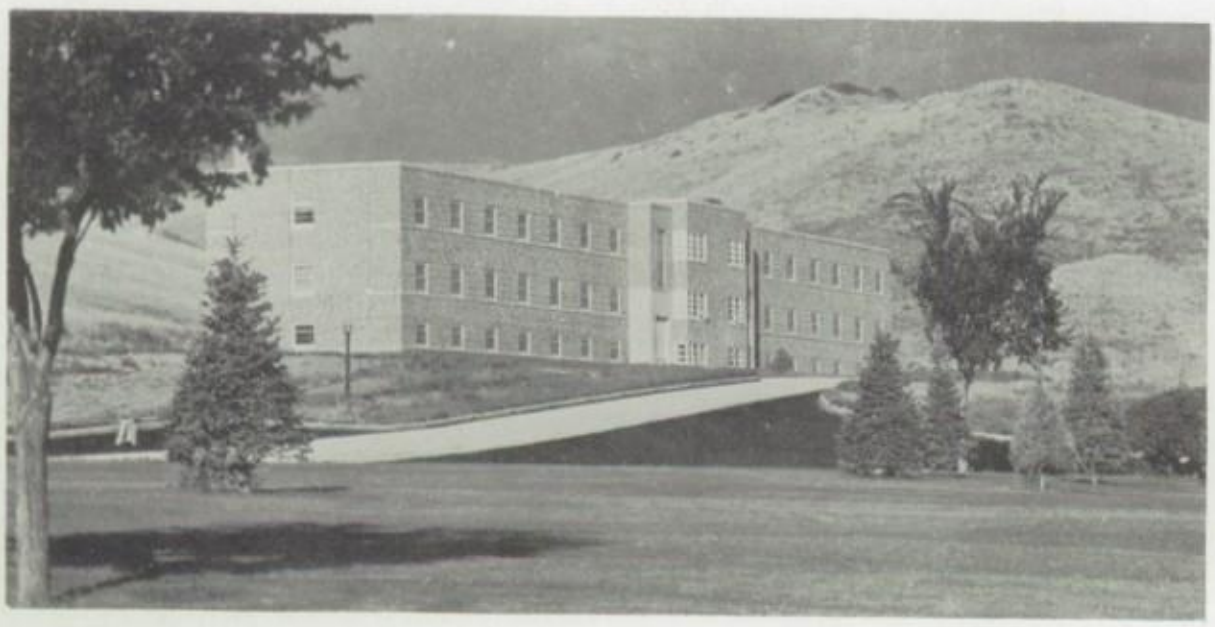
Dan Wallbaum
John Waltner
Lowell Warren
Jim Washenberger

# FRESHMEN

James Weaver
Jerry Wickstrom
Jim Wieczorek
Paul Wolf

Jim Wunder
Ken Yocum
Delbert Zambon

Chemistry — Chemical Engineering Building



Connolly Hall

## UNPHOTOGRAPHED FRESHMEN

Albright, R. E.
Amiotte, P. D.
Anderson, C. E.
Anderson, J. C.
Anderson, L. R.
Begier, R. J.
Bergstrom, B. L.
Boese, W. E.
Bordeaux, L. M.
Bucholz, K. L.
Bucholz, R. C.
Burns, J. J.
Carr, R. E.
Cash, R. J.
Casteel, L.
Coester, W. E.
Colby, H. S.
Cook, R. L.
Cornelius, R. L.
Cors, A. D.
Crown, M. D.
Day, L. G.
Dehl, M. L.
Deppeler, D. D.
Dewey, G. D.
Dodson, M. W.
Dutcher, D. L.
Eicens, I. D.
Eliason, C. D.
Enloe, W. S.
Erickson, B. F.
Evenson, D. L.
Ferguson, W. A.
Fletcher, A. G.
Flyr, G. D.
Fredlund, D. A.
Freeman, E. R.
Fristad, E. R.
Fritz, R. D.
Gapp, D. R.
Gellhaus, E. H.
Gill, G. H.
Gorder, C. T.
Hall, L. W.
Ham, E. L.
Hammerstrom, K. K.
Harn, J. J.
Hays, D. D.
Hays, R. C.
Hornstra, J. F.
Horst, W. E.
Hovde, M. A.
Huber, R. F.
Hydinger, K. D.
Irby, J. L.
JoBush, W. J.
Jones, D. K.
Jones, K. A.
Jones, L. A.
Jones, R. L.
Kent, E. C.
Kivimaki, J.
Kjerulff, D. E.
Krebs, L. G.
Krejci, F. E.
Krejci, F. W.
Langenfeld, R.
Lidel, D. D.
Lindquist, L. O.
Liu, C. H.
Louder, D. L.
Lund, L. L.
Lux, D. L.
McCrary, T. W.
McKevett, C. C.
Machler, K. H.
Marlow, H. J.
Marsh, R. K.
Matthew, F. L.
May, K. G.
Miesen, R. J.
Miles, J. G.
Miller, H. J.
Miller, J. E.
Mohn, C. P.
Moulton, C. N.
Neller, D. W.
Nelson, B. J.
Oliva, T. J.
Olsen, J. R.
Olson, D. L.
Olson, T. M.
Orton, B. A.
Orvedahl, J. A.
Oshier, E. M.
Paine, P. D.
Parsen, E. M.
Peacore, G. R.
Pearson, E. L.
Perry, J. F.
Peterson, D.
Platt, R. A.
Polk, C. P.
Preszler, H. D.
Pugh, J. D.
Radford, G. A.
Reavis, W. S.
Redling, G. A.
Rempfer, L. E.
Rickard, H. C.
Ristau, D. C.
Rivenes, R. C.
Rogers, D. A.
Rolland, J. D.
Rolland, J. D.
Runestad, J. A.
Russell, J. L.
Sack, L. L.
Schamber, A. R.
Schatz, C. S.
Schelske, R. A.
Schott, R. E.
Shaffer, R. J.
Sharp, W. W.
Shear, B. L.
Sherman, B. S.
Shy, J. L.
Simons, D. F.
Sivertsen, M. E.
Smelser, A. T.
Snyder, R. K.
Sobek, D. E.
Speckles, G. D.
Spitzenberger, L. R.
Stephenson, Boyd
Toffelmire, R. D.
Tucker, F. P.
Volz, R. C.
Weber, M. B.
Weismantel, W. E.
Wetz, G.
Widvey, N.
Wilkin, G. H.
Wilson, J. H.
Winans, F. A.
Wright, J. D.
Young, N. F.

# CAMPUS SHOTS

O'Harra Field

Gymnasium

Prep Building

Met-Mining Building

# ORGANIZATIONS

# AMERICAN CHEMICAL SOCIETY

The American Chemical Society Chapter located on the campus is a student branch of the national organization, and includes individual membership in the national Student Organization, if so desired. This society is a professional organization for Chemistry and Chemical Engineering students. The meetings are devoted largely to movies, professional lectures, and field trips. In the recent year part of the meetings have been held jointly with the Chemistry Department Seminar meetings in order that members of the Chapter might take advantage of the information presented at the meetings. Present officers of the local ACS are Jim Adams, president; Keith Wellman, vice-president; and Bob Shabram, secretary-treasurer. Professor Carl Schilz is the faculty adviser of the society.

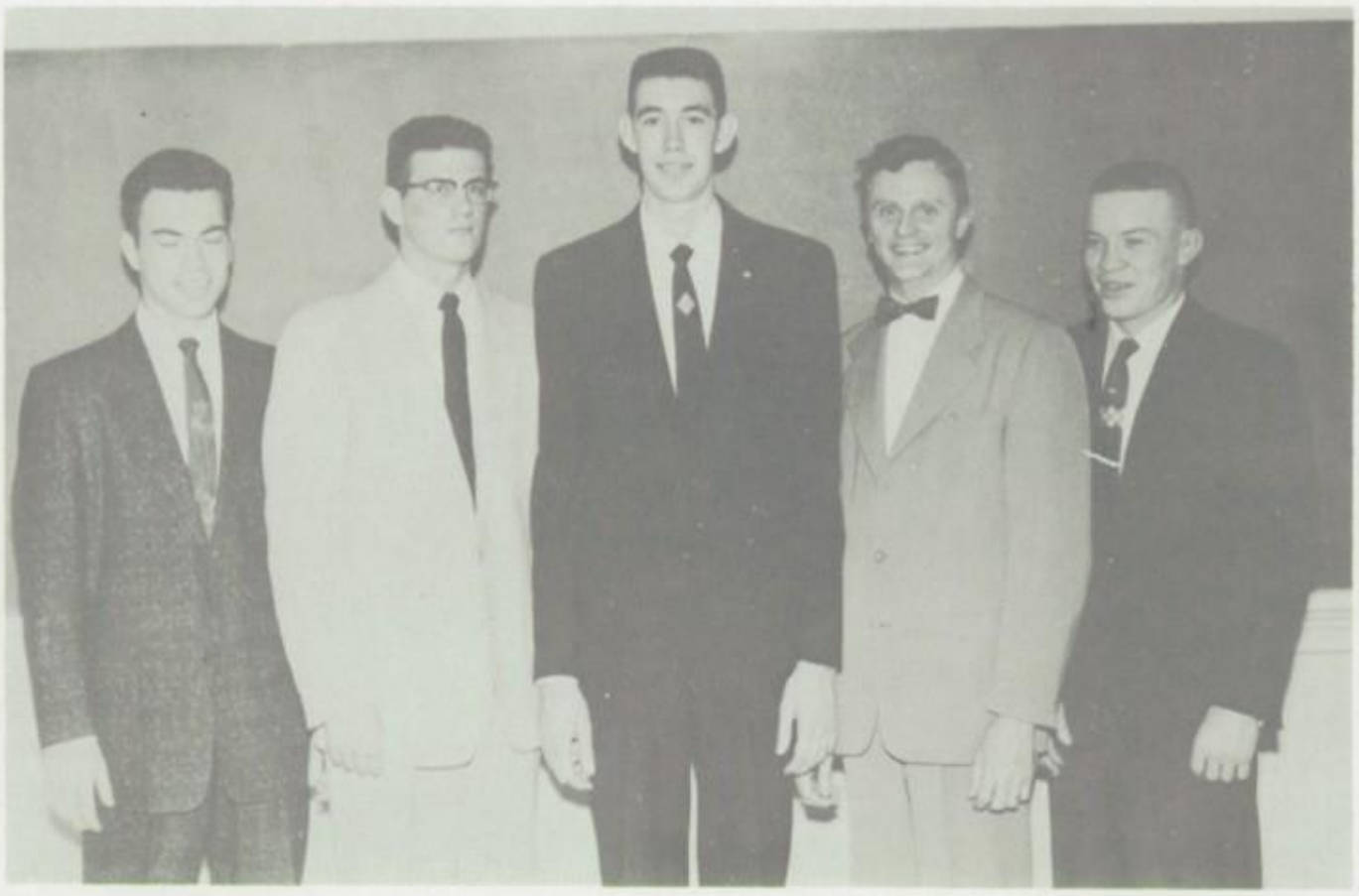
Back—R. F. Heckman, J. W. Willard, C. Pigney, R. L. Sandvig, N. Allen. Front—W. Simmons, W. J. Martin, G. G. Osterhof, L. Hanson.

Back—J. Horner, L. Mudge, R. Whitaker, J. Smith. Front—K. Wellman, J. Adams, B. Davee, B. Shabram.

# A. C. S.

Back—F. Klawiter, J. Wooley, B. Troyer, J. Kukura. Front—P. Dickson, J. Forbes, D. Danielson, T. Fiechtner.

# AMERICAN INSTITUTE OF CHEMICAL ENGINEERS



P. Kinney, B. Spars, D. Stork, R. Briggs, H. Thomas.

The American Institute of Chemical Engineers is a student chapter of the national professional society. The functions of the student chapter are to help students become acquainted with their professional society during their training period, and to promote professional standards among its members. Movies and guest speakers help aquaint the group with new ideas in this field. Every spring quarter the chapter presents awards to the top men in each class at an annual banquet. The biggest job of the chapter this year was to move the chemical engineering department into its new quarters in the new Chemistry-Chemical Engineering building.

The officers are: President, Raman Briggs; Vice-president, Byron Spars; Secretary, Herbert Thomas; Treasurer, Philip Dickson.

Back—M. Smith, R. Lerdal, B. Bradshaw, J. Kukura, D. Danielson. Front—R. L. Sandvig, R. F. Heckman, A. Karsten, W. Simmons.

# A. I. CHEM. E.

Back—R. Rasmussen, F. Klawiter, J. Wooley, B. Troyer, D. Finley, P. Dickson. Front—C. Bietry, J. Adams, R. Davee, J. Forbes.

Back—A. Denny, L. Mudge, R. Whitaker, R. Lee, W. Kiel. Front— T. Fiechtner, J. Dahl, C. Pigney, Y. Chae.

# AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

The American Institute of Electrical Engineers was founded in 1884, and has as its objectives the advancement of the allied arts and sciences. The Institute also provides a maintenance of a high professional standing among its members.

The Institute jointly meets with the Institute of Radio Engineers and movies are shown or men of professional engineering experience present talks of interest to the student engineer. The AIEE-IRE sponsors the Annual Beard Derby which is one of the outstanding social functions of the year.

The present roll of officers include Chuck Parks, Chairman; Floyd Brown, Secretary; Jim Major, Treasurer; and Prof. W. A. Hixson, Faculty Adviser.

Back—D. Pesall, W. Reuter, P. Komiske, G. Kreuger, W. A. Hixson. Front—N. Shyne, N. Dunham, P. Callan, W. May.

Back—R. Anderson, R. Saunders, C. W. Cox. Front—
E. E. Clark, J. Webster, C. Parks, R. Hicks.

# A. I. E. E.

P. Malhotra, E. Hoines, F. Blood, K. Meyer.

Back—F. Brown, V. LeCocq, W. Hill, W. Benda,
C. Wertz. Front—J. Marble, J. Buttemeier, J. Major,
S. Barbas.

# AMERICAN SOCIETY OF CIVIL ENGINEERS

Back—F. Myhers, E. D. Dake, F. Brady, W. V. Coyle, G. L. Jacobson.
Front—G. Tveito, W. Calvert, H. Fawcett, L. Hanson.

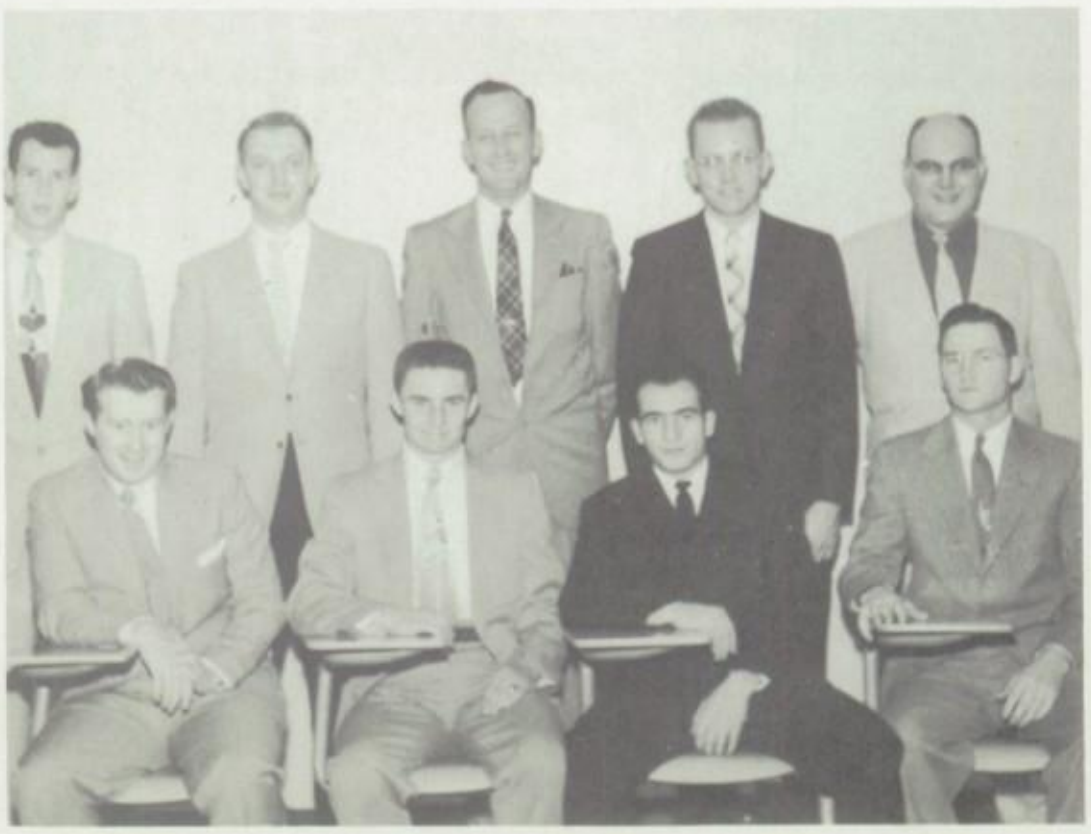
The American Society of Civil Engineers Student Chapter is an organization of Civil Engineering students and has as its objectives the development of professional consciousness, to promote a spirit of congeniality among the members, and to provide a friendly contact with the engineering profession. The chapter activities include inspection trips to points of interest to engineers.

Officers are: President, Lee Hanson; Vice-president, Harland Fawcett; Secretary, Martin Warvi; Treasurer, Douglas Coe. Professors Dake and Jacobson act as faculty advisers.

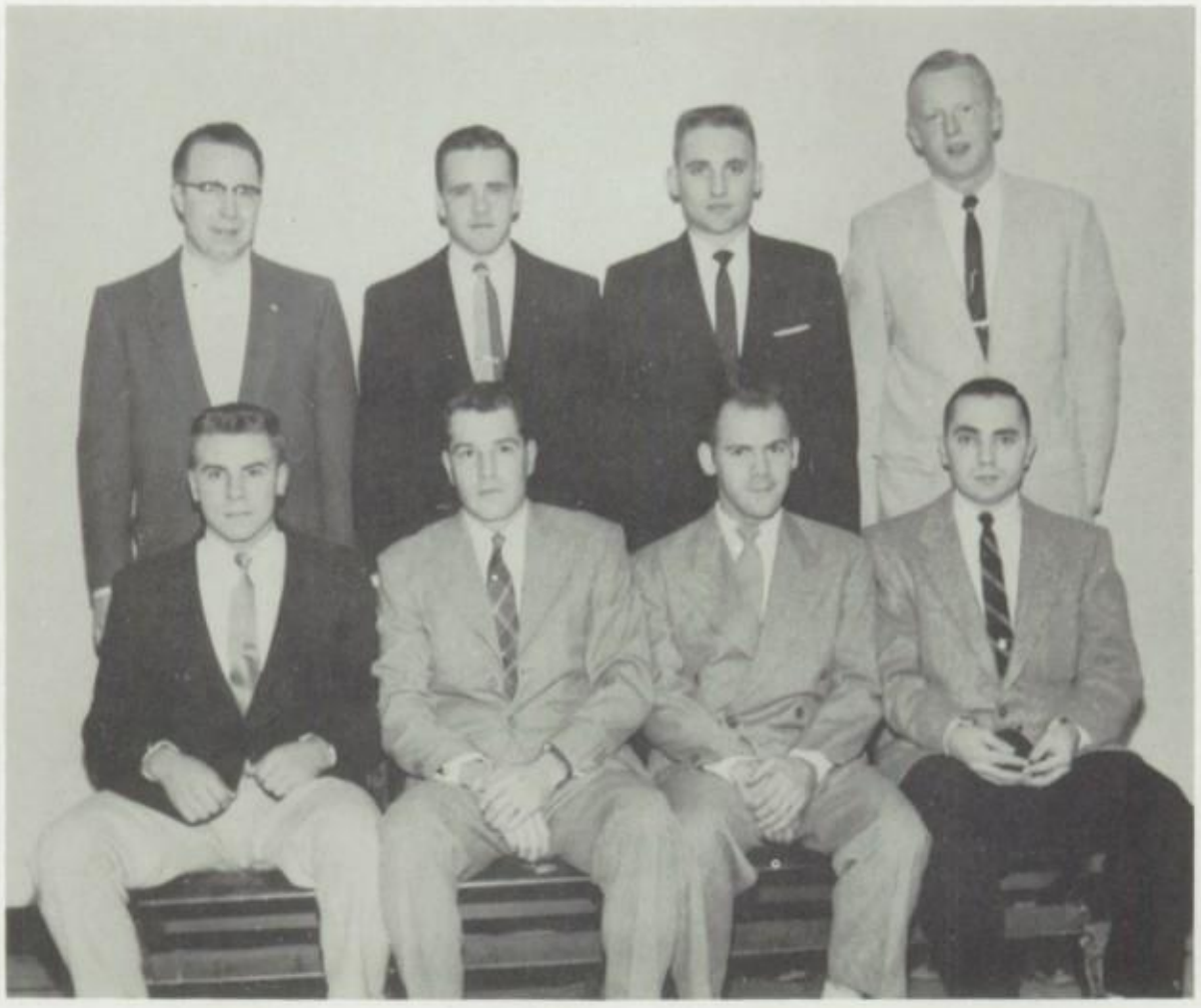
Back—R. Kelley, B. Bomhoff, P. Jorgenson, R. Palmer, E. Kidner. Front—J. Erickson, H. Baltzer, L. Larson, J. Thompson.

# A. C. S. E.

Back—R. Pecha, M. Warvi, E. Rudloff, W. Glover, D. Rozendal. Front—E. Poch, D. Brooks, T. Vance, L. Hash.



Back—D. Fritz, R. Noss, G. McQuate, R. Sanders, D. Devine. Front—J. McBride, R. Linch, E. Babayan, J. Wilsey.



Back—J. Schneider, T. Lyons, A. Addy A. Liffengren. Front—M. Stangeland D. Schwichtenberg, R. Koenig, R. Quintal.

# AMERICAN SOCIETY OF MECHANICAL ENGINEERS

The American Society of Mechanical Engineers is a student section of the national professional society. A.S.M.E. places emphasis on extracurricular understanding of present and past engineering principles and progress. A.S.M.E. provides the opportunity to keep abreast of current technical developments through **Mechanical Engineering,** the Society's monthly journal, and also through movies and talks by engineers in industry and professors here on campus.

The officers are: Adviser, Prof. E. R. Stensaas; President, Bob Quintal; Vice-president, Dick Buck; Secretary, Alva Addy; Treasurer, Joe Stepon.

# A. S. M. E.

Back—M.Gates, D. Larsen, P. McDonald, K. Sunding. Front—J. McCorkle, K. Martin, H. Bell, K. Carriere.

Back—E. Sundstrom, J. Stepon, W. Sveum R. Hinker. Front—D. Waldman, R. Todd, R. Buck, L. King.

# A. S. M. E.

Back—D. Iltis, C. Weber, W. Barth, R. Dunwiddie. Front—W. Reinsmith, L. Johnson, C. VanderLinden, D. Sonstegard.

# TECH BAND

The band works hard to provide color and pep at the football and basketball games. Two mornings a week the members gather before classes to practice and prepare for the many occasions on which they play. This year the band is the largest and most balanced we have had in many years. The quality of the band is improving each year, and with the new uniforms that are soon to be here, it is hoped that more interest will be shown in the band. The officers are: Director, Homer Schwentker; President, Alan Liffengren; Vice-president, Curt Westley; Secretary-Treasurer, Dave Sonstegard.

Back—A. Hins, B. Hollenbeck, R. Noss, W. Schick, D. Freeland.
Front—R. Wagner, R. Ollenburg.

# BAND

Back—H. Schwentker, J. Clifford, E. Tegland, N. Metzger. Front—D. Sonstegard, K. Stone, V. Johnson.

Back—L. Blair, D. Henriks, D. Sander, L. Stinnett.
Front—R. Whitaker, B. Cash, A. Liffengren.

Back—C. Westley, P. Komiske, D. Gapp, D. Foster.
Front—W. Burk, W. Barth.

Back—L. R. Palmerton, B. Gregory, J. T. Thomas.
Front—H. B. Goodell, D. Larsen, F. L. Partlo.

Back—M. Smith, D. Rogers, J. Hayes. Front—J. Waltner, H. Nelson, D. Hawkins.

# BOARD OF CONTROL

The control of the student association is carried out by the Board of Control which has charge of all affairs and properties of the association. The Board of Control is made up of nine student members, two from each class, and the president of the student association.

The Campus Wives Club provides a social group for the wives of Tech students. This year the organization entered a float in the M-Day parade, sponsored a supper dance for their husbands, put on a tea for the faculty wives and organized a bridge club for Tech wives. Other projects to help charities are always being carried on. A growing group, the Campus Wives Club hopes to expand their membership and incorporate more projects each year.

# CAMPUS WIVES

Back—N. Malthouse, S. Bearg, G. Mathew, R. Brink, B. Callan. Front—
D. Banning, K. Harris, E. Stearns, C. Conklin.

# CAMPUS WIVES

Back—L. Mullan, B. Vigoren, J. Sutherland, C. Wattier, S. Shear.
Front—C. Reed, V. Lund, L. McBride, A. Calvert.

Back—J. Bomhoff, P. Buck, C. Wilsey, B. Niebrugge, C. Fawcett.
Front—M. Todd, B. Purrington, A. Barber, L. McCardy.

# CAMPUS WIVES

Back—C. Ingwersen, T. Turechek, D. Meier, C. Chieslar, M. Welter. Front—L. Klinger, M. Finley, L. Sacrison, G. Baumgartner.

Back—S. Hill, M. Simmons, M. Gellhaus, A. Green, P. Willett. Front—P. Neller, M. Shyne, P. Gilbertson, S. Hauglum.

Back—B. Volz, D. Lauer, D. McCorkle, J. Hayes, C. Bordeaux. Front—D. Rinehart, T. McDonald, M. Krueger, C. McQuate.

Back—B. Bergstrom, D. Smith, J. Wilson, D. Olson, D. Simmons, J. Burns. Front—
R. Fritz, R. Albright, T. S. Chung, R. Soukup.

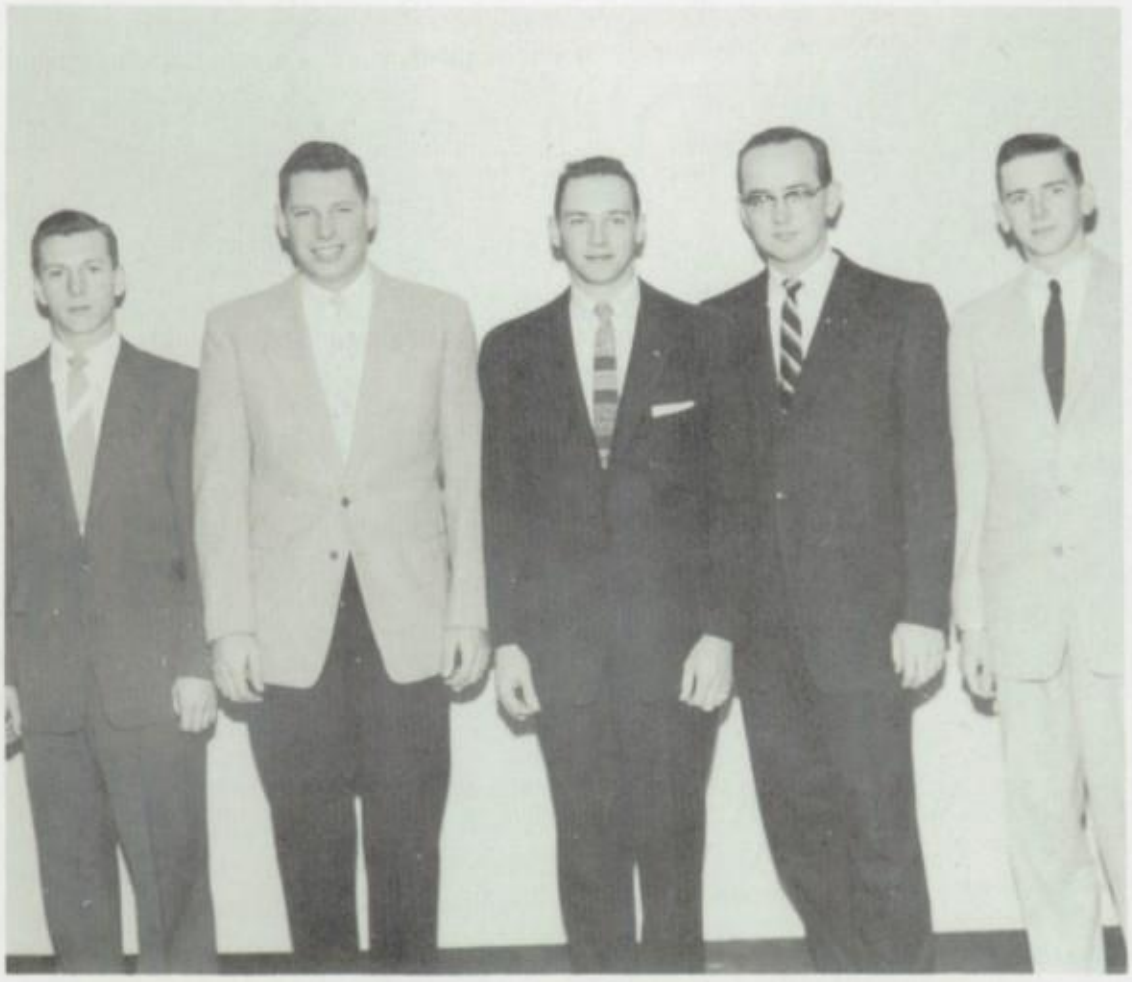
# COLLEGE "Y"

This past year a college branch of the Young Men's Christian Association was established on our campus. The purpose of this organization is to further spiritual and social interests of our college men.

Officers include Bruce Bergstrom, President; Duane Smith, Vice-president; Kenneth May, Secretary; and John Heacock, Treasurer; along with the ten committee chairmen from the "Y" cabinet.

The organization's functions this past year were concerned mainly with membership of both students and faculty, although a few social events were held. Next year a freshman camp will be the main goal along with increased social and educational activities.

# DELTA SIGMA PHI FRATERNITY



R. Shabram, W. Hill, R. Gregory, L. Potter, R. Hinker.

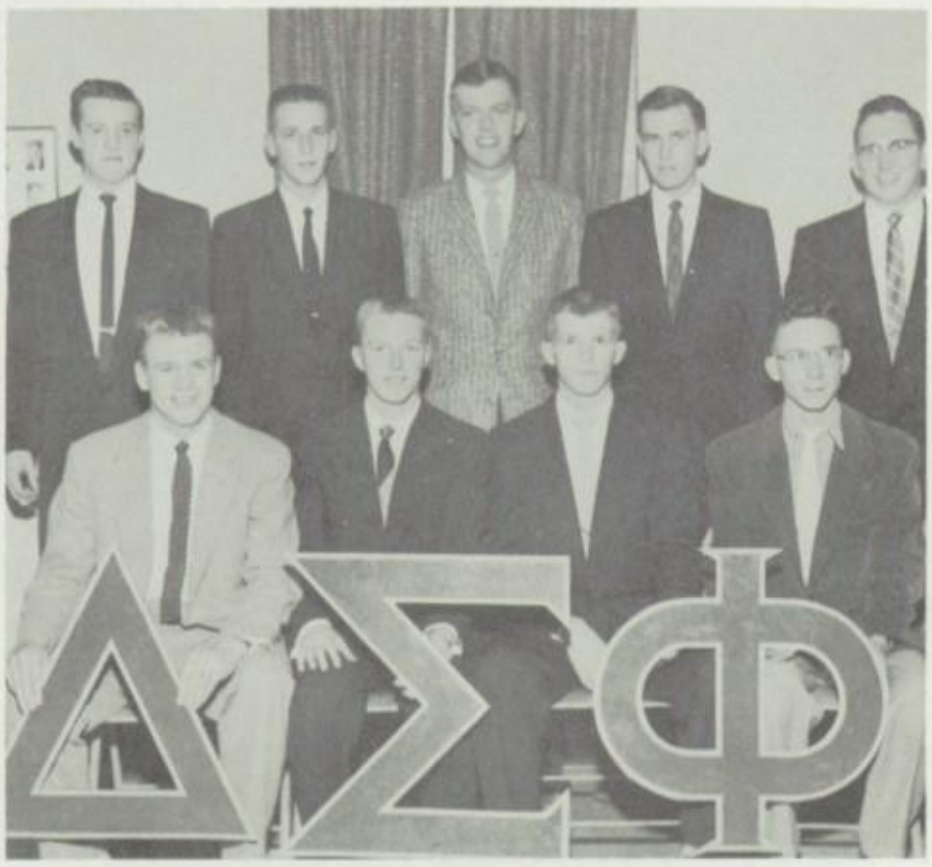
The Delta Sigma Phi Fraternity is a college social fraternity of international scope and activity. Delta Sigma Phi encourages her sons to make the most of college through a well-planned balanced life — the symmetrical development of the mind, soul, and body.

The Gamma Upsilon chapter was established on the campus of the South Dakota School of Mines in May 1954. Present membership numbers about 55 members. The chapter's activities during the past year in addition to several parties, smokers, and banquets include the Sailors Ball (a costume party), the Carnation Ball, and an annual Spring Picnic.

The present officers are: Bob Gregory, President; Lloyd Potter, Vice-president; Ron Hinker, Treasurer; Bob Shabram, Secretary; Bill Hill, Sergeant-at-arms; and Dr. Martin, Faculty Adviser.

Back—J. Stepon, K. Martin, A. Zoutte, D. Nold, H. Bell.
Front—M. Warvi, S. Barbas, W. Hanscom, D. Donnelly.

Back—T. Ranney, H. Swarm, D. Ross, B. Spars, G. Rennhack. Front—D. Seefeldt, B. Nissen, J. Burggraff, J. McCorkle.



Back—R. Johnson, E. Matzke, R. Wolff, J. Horner, D. Hampton. Front—D. Malwitz, B. Anderson, D. Sigdestad, B. Benda.

Back—P. Dickson, F. Brown, M. Brandner, J. Chieslar. Front—E. Hieb, H. Keating, M. Glerup, J. Ritter.

Back—B. Gregory, J. Bauch, R. Wagner, J. Hagen, B. Hill. Front—D. Berg, R. Ollenburg, R. Hinker, B. Shabram.

Back—D. Orts, B. Banning, P. H. Anderson, R. Wolff, M. Glerup. Front—W. Burk, F. Coulson, H. Borszich, W. Miller, W. Nissen.

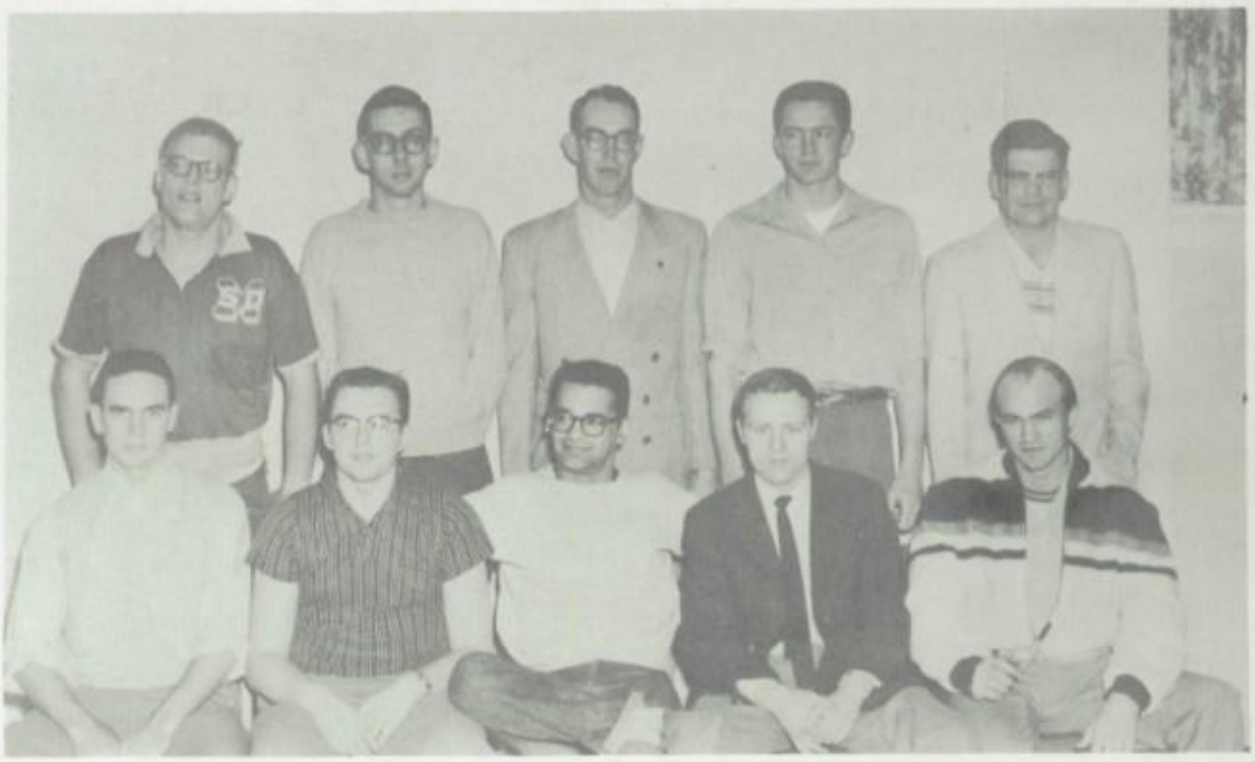
# DRILL AND CRUCIBLE

All students enrolled in the Departments of Mining, Metallurgy, and Geology are eligible for membership in the Drill and Crucible. Drill and Crucible is a student associate chapter of The American Institute of Mining, Metallurgical, and Petroleum Engineers (A.I.M.E.) While members of the local chapter are not required to hold membership in A.I.M.E., the majority do belong as the students realize the need for an early association with their chosen professions. Meetings of Drill and Crucible are held every month featuring speakers and movies with topics pertaining to the mineral industries. Advice, interest, and devotion of time is generously given by the faculty to Drill and Crucible. "Beer Busts" are held in the fall and spring of each school year.

The officers are: Tom Robertson, President; Andre Zoutte, Vice-president; Dennis Malwitz, Secretary; Mick Connor, Treasurer.

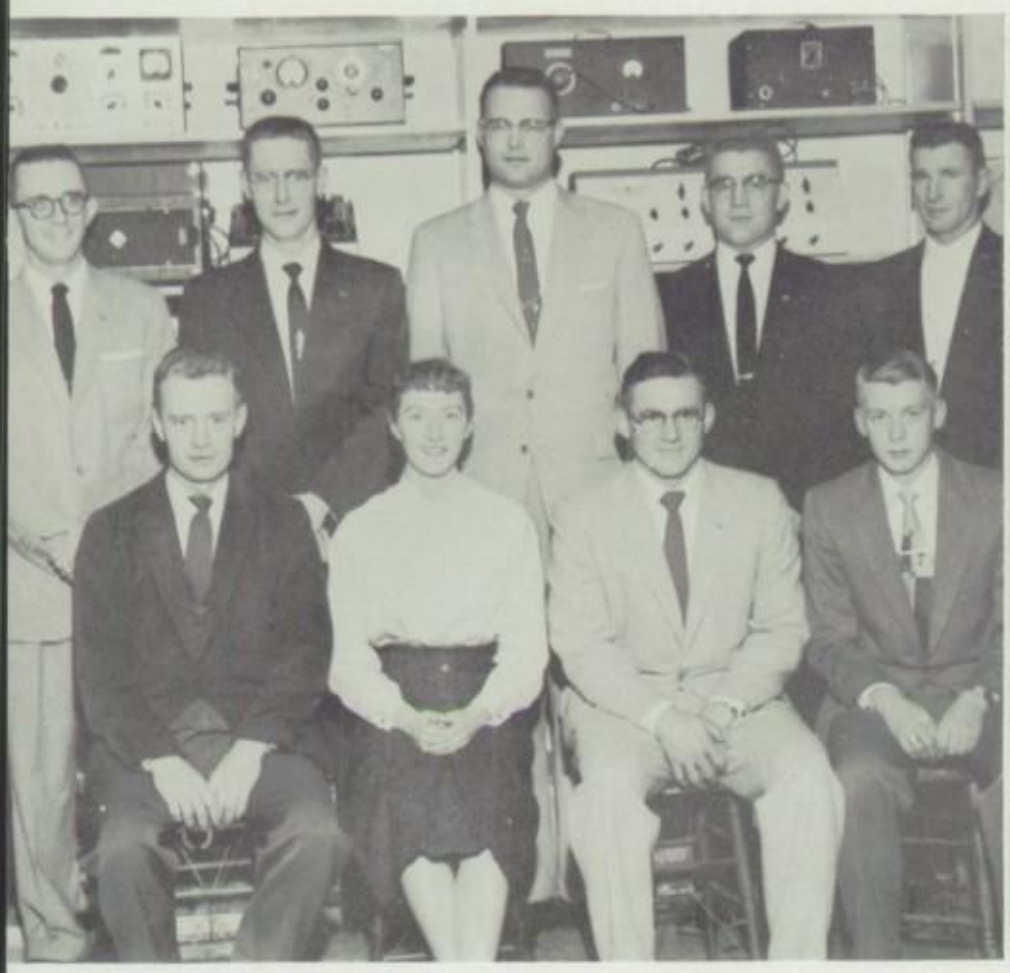
# DRILL AND CRUCIBLE

Back—M. Halstead, J. Papike, D. Brown, L. Cook, C. Strande. Front—C. Ricketts, H. Swarm, F. Fawkes, J. Smith, E. Oshier.



Back—M. Conner, R. Wagner, A. Zoutte, A. Kelly, L. Vigoren. Front—R. Ferguson, P. Gnirk, T. Albert, T. Robertson, W. Coleman.

Back—J. P. Gries, S. Spring, T. Waterland, D. Anderson, E. Gilberstson. Middle—O. Byrum, R. Stotelmeyer, M. Evans. Front—E. Klinger, B. Thomsen, R. Bruce, J. Ritter, G. Rennhack.



Back—P. Callan, N. Shyne, G. Munson, A. Lipp, A. Satterlee. Front—W. A. Hixson, N. Dunham, R. Rieger, P. Fenner.

Back—A. Koster, W. May, W. Reuter, C. W. Cox, E. E. Clark. Front—K. Meyer, E. Kjerulff, J. Major, D. R. Macken.

# ETA KAPPA NU

The School of Mines Chapter of Eta Kappa Nu, Beta Chi, is one of over 40 chapters of the electrical engineering honorary society.

Election to this society is a mark of scholastic achievement and signifies outstanding qualities of personality and character. Eta Kappa Nu elects its members from the upper one-third of the senior class and the upper one-fourth of the junior class.

Present officers of Eta Kappa Nu are: President, Bill May; Vice-president, Gerald Munson; Recording Secretary, Jim Major; Corresponding Secretary, Nancy Dunham; Treasurer, Prof. Clark; Adviser, Dr. Hixson.

# HARDROCKER FLYING CLUB

The Hardrocker Flying Club was incorporated during the spring quarter of 1956 by a group of students interested in learning to fly. Since its beginning the Club has grown to 45 members. About 10 of these members have soloed in the past year.

A J-3 Piper Cub was purchased in May of 1956. It is hangered at Halley Airport and members of the club do most of the maintenance work on the plane.

The officers of the club are: Connie Fuchs, President; Ed Rudloff, Vice-president; Harold Ehrman, Secretary; and Doug Devine, Treasurer.

Back—E. Rudloff, K. Meyer, R. Hays, J. McDow. Front—T. White, B. Thomson, H. Ehrman, C. Fuchs.

Back—G. Anderson, B. Johnson, D. Huschke, D. Gray, W. Coester. Front—W. Nagel, L. Colburn, G. Krebs, G. Strasser.

# FLYING CLUB

Back—W. Calvert, F. Myhers, B. Bomhoff, A. Zoutte. Front—W. Westre, L. King, F. Ehrman.

Back—G. Kreuger, R. Saunders, C. Wertz. Front—R. Hicks, N. Shyne, C. Parks, B. May.

# INSTITUTE OF RADIO ENGINEERS

The student chapter of IRE on the campus of the School of Mines has been an active organization since 1948. One of the outstanding projects completed since that time was the design and construction of the sound system in the gymnasium.

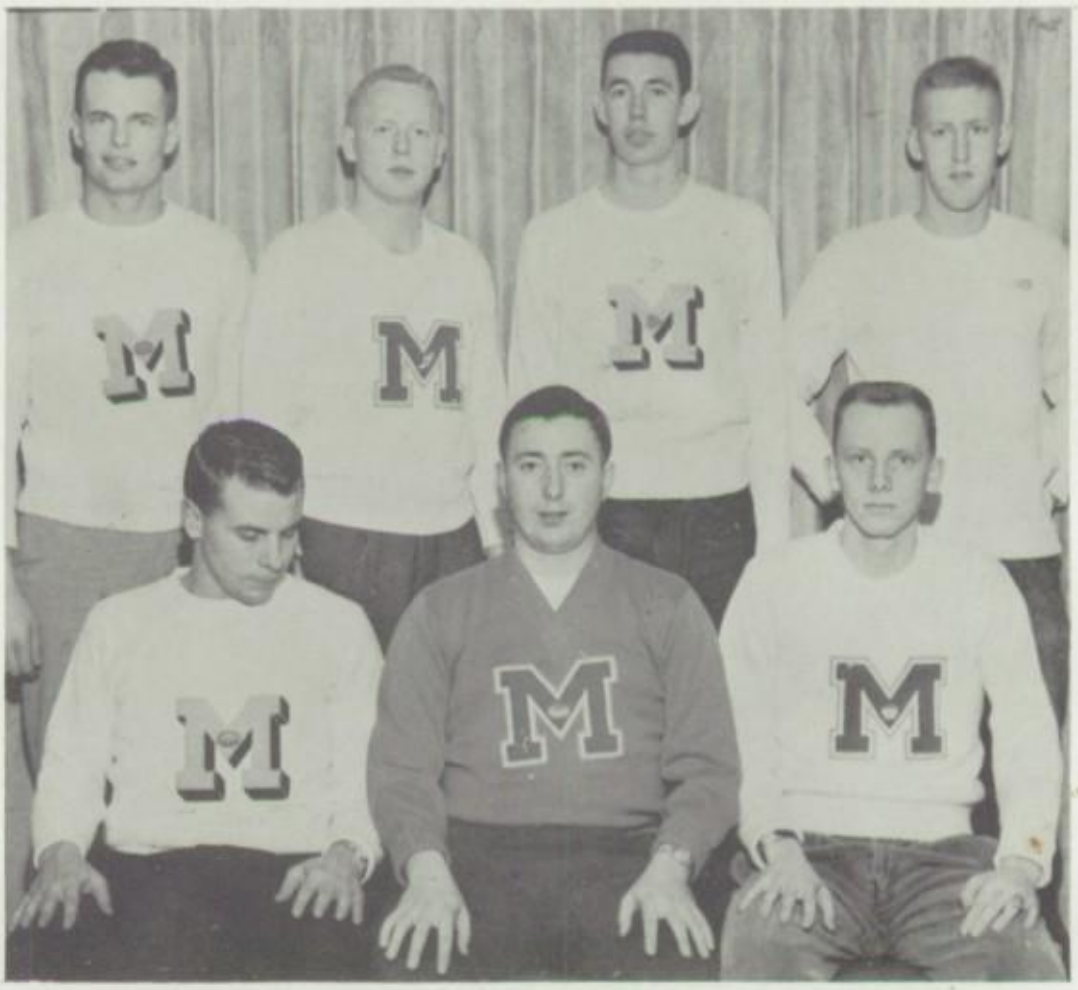
During the past year, IRE in cooperation with AIEE has sponsored the Beard Derby and Dance, an outstanding event on the South Dakota Tech campus. Another project of IRE is the participation in the Annual Science Fair.

The student branch of IRE has for the last two years won the Scholarship Trophy presented by Sigma Tau to the organization whose members have the highest grade-point average.

The present officers of IRE are: President, Bill May; Secretary; Norman Shyne; Treasurer, Gerald Munson; Adviser, Prof. Macken.

Back—V. LeCocq, W. Benda, F. Brown, E. Hoines, F. Blood.
Front—J. Webster, N. Dunham, J. Major, K. Meyer.

# "M" CLUB



Back—B. Timmerman, A. Liffengren, D. Stork, C. Neller.
Front—M. Stangeland, J. Thompson, L. Larson.

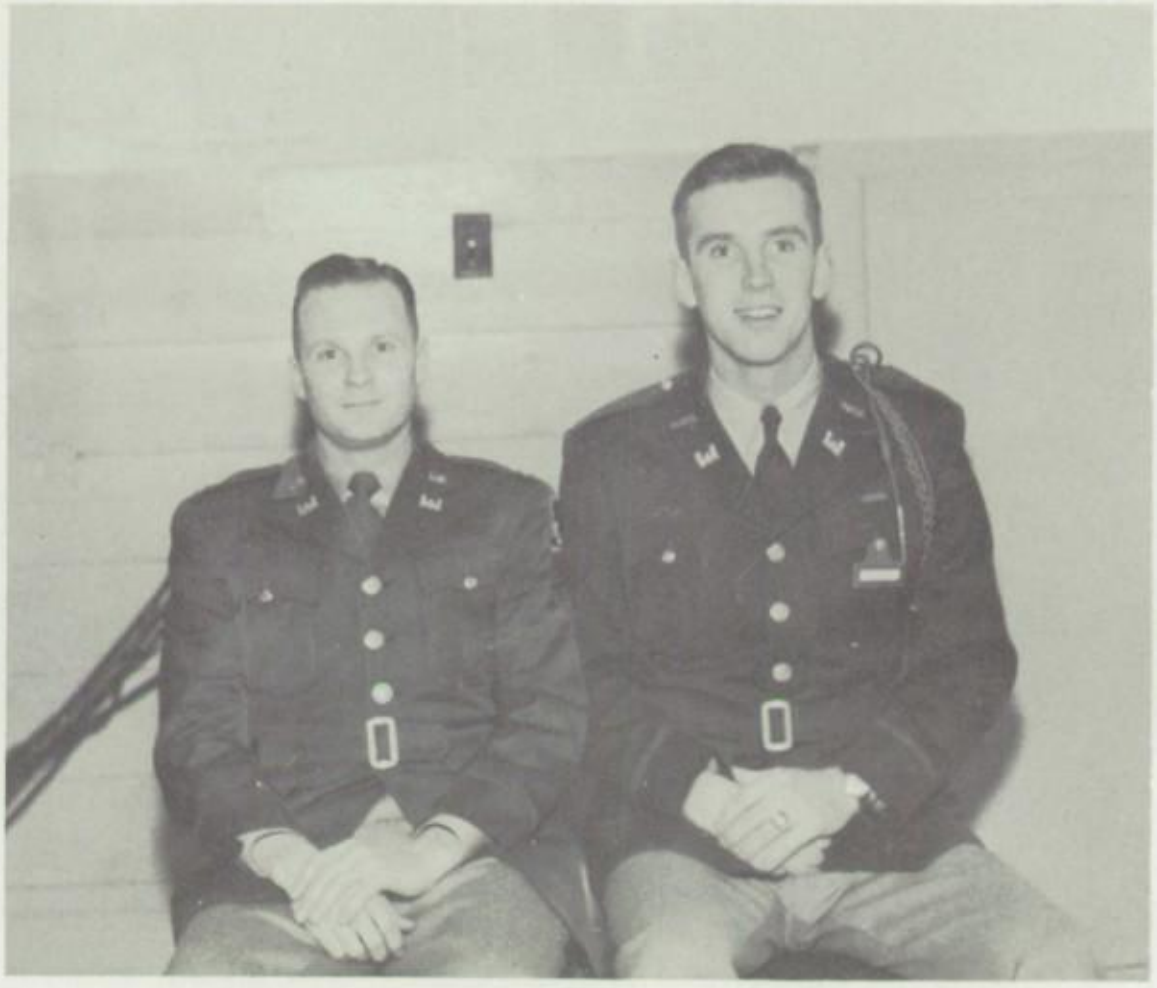
The "M" Club is composed of persons who have lettered in athletics at the South Dakota School of Mines. The main objectives of the organization are to promote athletic participation and to provide awards for the letter winners. One year lettermen receive letters, two year lettermen receive sweaters, three year lettermen receive jackets, and four year lettermen are given blankets.

The present officers are: President, Charles Speice; Vice-president, Marlin McGee; Secretary, Willard Potter; and Treasurer, Mike Conner.

Back—R. Kelley, C. Speice, R. Whitaker, J. Dixon. Front—C. Elrod, T. Vance, R. Linch, W. Potter.

# "M" CLUB

Back—R. Pletka, B. Bradshaw, M. McGee, M. Conner. Front—K. Meeks, D. Davidson, P. Gnirk.



Capt. E. C. Kelton, J. Bauch.

# SCABBARD AND BLADE

Scabbard and Blade is a national military honor society. The purposes of Scabbard and Blade are primarily to raise the standard of military education in American colleges and universities, foster the essential qualities of good and efficient officers, and to promote friendship and good-fellowship among the cadet officers.

Membership is by election only and is based on merit. All cadets taking advanced ROTC are eligible for election to Scabbard and Blade. The cadet elected to Scabbard and Blade must be "an officer and a gentleman." He must possess the qualities of leadership, patriotism, efficiency, loyalty, obedience, courage, good fellowship, and honor — all of which lead to success in any field of endeavor, military or civil.

Jack Bauch has served as president of the local chapter for the past year. Captain Kelton serves as chapter adviser.

Back—B. Shabram, B. Anderson, B. Nicklin. Front—B. Nissen, F. Brown, D. Malwitz.

# SCABBARD AND BLADE

Back—C. Westley, D. Saunders, J. Webster. Front—D. Stork, L. Larson, R. Rath.

Back—B. Gregory, W. Potter, B. Pecha. Front—M. Warvi, G. Rennhack, D. Coe.

J. Rinehart, H. Isaak, M. Smith, M. Moen.

# SIGMA PI SIGMA

Sigma Pi Sigma is a physics honor society, and its members are selected from students who have completed an advanced physics course with high scholarship. The purpose of the society is to promote greater interest in physics.

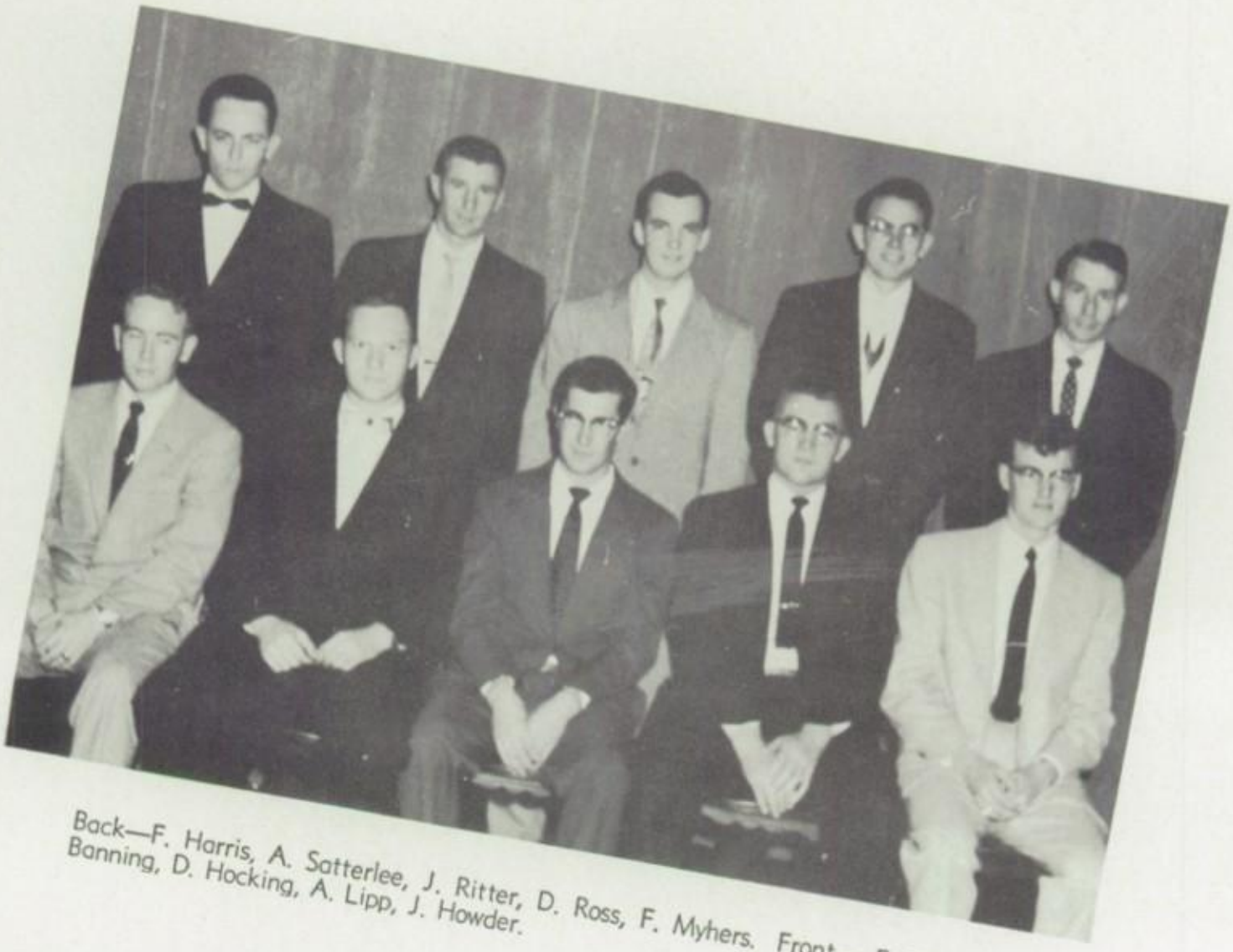
The officers of Sigma Pi Sigma at present are James D. Rinehart, President; Melvin R. Smith, Vice-president; Monroe O. Moen, Treasurer; and Harlan Isaak, Secretary.

# SIGMA TAU

Sigma Tau is an honorary fraternity, the purpose of which is to recognize scholarship and professional attainment. Its members are selected from the upper third of the junior class on the basis of scholarship, and on practicality, the sociability. It is the aim of the fraternity to recognize outstanding student engineers and promote projects which will advance the best interests of engineering education. Sigma Tau sponsors an annual award which is presented to the most outstanding member of each freshman class.

The officers are as follows: President, J. Bauch; Vice-president, R. Welter; Pyramid Secretary, D. Waldman; Recording Secretary, H. Fawcett; Historian, M. Smith; Treasurer, B. Gregory.

Back—W. A. Hixson, M. Smith, J. P. Gries, P. H. Anderson. Front—D. Waldman, B. Gregory, H. Fawcett, J. Bauch



Back—F. Harris, A. Satterlee, J. Ritter, D. Ross, F. Myhers. Front— E. Poch, R. Banning, D. Hocking, A. Lipp, J. Howder.

# SIGMA TAU

Back—E. Matzke, R. Kiel, D. Iltis, M. Moen, D. Devine. Front—W. Burk, A. Addy, D. Buck, B. Nicklin, E. Chang.

Back—E. Babayan, P. Dickson, B. Spars, P. Kinney, J. Horner. Front—D. Almen, K. Meyer, B. May, J. Adams, E. Rudloff.

Back—H. Isaak, A. Liffengren, C. Parks, C. Wertz. Front—K. Wellman, M. McGee, C. Westley, W. Reinsmith.

Back—F. Klawiter, C. Liu, P. Callan, B. Troyer, J. Wooley. Front—R. Rieger, R. Hinker, N. Shyne, J. Major, K. Carriere.

# SIGMA XI

The South Dakota Tech Sigma Xi is a branch of the national honorary scientific research fraternity known as the Society of the Sigma Xi. Nineteen members of the Tech faculty and two residents of the Black Hills area who are engaged in scientific work are members of this group. The purpose of the Society of the Sigma Xi is to encourage investigation in science, pure and applied.

The local Sigma Xi club holds four open meetings per year at which a well-known worker in any branch of science appears as a speaker. The Club is keenly interested in stimulating promising young people to enter the fields of science and technology.

Back—J. P. Gries, R. F. Heckman. Front— M. Green, J. H. Cope, G. G. Osterhof.

Back—C. E. Schilz, R. L. Sandvig, W. J. Martin, J. W. Willard. Front—D. A. Thorson, A. L. Lingard, E. L. Tullis.

# SINGING ENGINEERS

Back—K. Stone, L. Steege, D. Nelson, O. Lund, J. Kukura, J. DesJarlais, H. Isaak, R. Wolff, R. Pederson, D. Gapp, J. Wilson, W. Mendenhall, R. Nicklin, R. Kiel, W. Boese, D. Sobek. 3rd Row—D. Briscoe, T. Oliva, R. Noss, B. Bergstrom, I. Eicens, J. Shy, R. Krause, C. Elrod, M. Swanson, D. Nold, D. Olson, E. Matzke, S. Arlton, D. Grow, L. Blair. 2nd Row—F. Brown, R. Cash, W. Richardson, H. Preszler, E. Kjerulff, G. VanderLinden, M. Steiger, W. Schick, R. Davee, J. Adams, H. Colby, W. Burk, T. Fiechtner, J. Zimmerman. Front—M. Sivertson, L. Hanson, W. Kingsbury, D. Eggers, C. Lott, W. Benda, R. Anderson, M. Crown, A. Hins, C. Jundt, J. Buttemeier, J. Waltner, H. Ehrman, K. Machler.

The Singing Engineers started strong this year with 120 men trying out but only 66 making the final grade. The select group, resplendent in white dinner jackets and black trousers, presented their annual winter concert to a packed house at the Rapid High School auditorium early in February in preparation for the spring tour. The tour included such towns as Mobridge, Aberdeen, Watertown and Sioux Falls high schools and an appearance on Sioux Falls' KELO-TV as a bonus. The usual special acts including the ever-popular "Engin-aires" quartet aided and abetted the Singing Engineers at all appearances and represented the Singing Engineers at numerous public gatherings throughout the Black Hills area. The director is Don Tuttle, and the accompanist is Edgar Swanson.

Officers are: Raman Briggs, President; Lee Hanson, Vice-president; Everett Kjerluff, Secretary-treasurer, Floyd Brown, Business Manager; and Robert Anderson, Librarian.

# PERSONNEL

**FIRST TENOR**

Larry Blair
Wayne Boese
Raman Briggs
Bill Coester
Doug Devine
Harold Ehrman
Terry Feichtner
Dave Grow
Roger Kiel
Kurt Machler
Bob Nicklin
Bob Pecha
Bob Shabram
Don Sobek
Kenyon Sunding
John Waltner
Jerry Zimmerman

**SECOND TENOR**

Jim Adams
Stan Arlton
Joe Buttemeier
Wayne Burk
Howard Colby
Marlin Crown
Bob Davee
Alan Hins
Clyde Jundt
Errol Matzke
Wes Mendenhall
Don Nold
Dave Olson
Jim Wieczorek
Jerry Wilson

**FIRST BASS**

Bob Anderson
Bill Brenda
Dave Eggers
Chuck Elrod
Don Gapp
Harlan Isaak
Ev Kjerulff
Russ Krause
Claude Lott
Bob Pederson
Walter Schick
Jim Shy
Mel Steiger
Morris Swanson
Clark Vander Linden
Roger Wolff

**SECOND BASS**

Bruck Bergstrom
Daryl Briscoe
Floyd Brown
Bob Cash
Gerald Des Jarlais
Bob Eicens
Lee Hanson
Wayne Kingsbury
John Kukura
Oscar Lund
Don Nelson
Roger Noss
Tom Oliva
Harold Preszler
Bill Richardson
Ed Sivertson
Ken Stone
Lauren Steege

Trumpeters: Larry Blair, Floyd Brown, Doug Devine, Bob Cash, Duane Sander.

# SOCIAL COMMITTEE

One of the most important organizations on the campus is the Social Committee. This committee is in charge of the freshman tour at the beginning of the year, and handles the arrangements on M-Day. In addition to these well-known activities, the social committee sponsors a number of school dances throughout the year. All school activities are coordinated by this committee to avoid the many conflicts which would otherwise occur. The people on this committee deserve to be congratulated for the fine work they have been doing.

Back—J. Hayes, R. Whitaker, J. Adams, D. Seefeldt. Front—M. Smith, R. L. Schmidt, E. Oshier.

Back—W. Coleman, R. Pletka, W. Nissen, W. Potter. Front—D. Malwitz, J. Chieslar, D. Hawkins, M. Warvi.

Back—G. Rennhack, J. Burggraff, F. Hauser. Front—J. Bauch, Capt. F. E. Le Clear, Capt. E. C. Kelton.

# SOCIETY OF AMERICAN MILITARY ENGINEERS

The Society of American Military Engineers strives, in the interest of national defense, to encourage, foster and develop relations of helpful interest between the engineering professions on the campus, and that in the military service.

Membership in the society is open to any student who is enrolled in military science.

The society endeavors to bring to its members a speaker or movie at its meeting every month.

Officers are as follows: President, Bill Nissen; Vice-president, Dennis Malwitz; Secretary-Treasurer, Gil Rennhack.

K. Carriere, W. Burk, D. Eliason, F. Ehrman.

# THE ENGINEER STAFF

The purpose of the Engineer, the student yearbook of the South Dakota School of Mines and Technology, is to provide a history of the events that have taken place on the campus during the school year. Special attention is devoted to classes, faculty, and athletics as well as all campus organizations and activities.

The yearbook staff officers are: J. Keith Carriere, Editor; Wayne Burk, Business Manager; and Rodney Meador, Faculty Adviser.

The other staff members are: Don Waldman, John Burggraff, Bill Richardson, Alan Hins, Harold Ehrman, Fred Ehrman, Ed Babayan, Ken Anderson, Walt Schick, Dan Eliason, John Wooley, Oscar Lund, Bob Trautman, and Ed Coates who accomplished the task with appreciated help from other students, and not least, a few secretaries.

# ENGINEER STAFF

Back—C. Elrod, E. Babayan, B. Trautman, J. Burggraff. Front—H. Ehrman, C. Mohn, D. Waldman, E. Coates.

# TECH STAFF

Back—E. Babayan, C. Braun, L. Rosenberg, D. Eliason. Front—C. Mohn, C. Pigney, K. Brickel, H. Ehrman.

# TECH STAFF

The purpose of the Tech Staff is to compile, edit and publish the campus newspaper, the "Tech." The publication is concerned primarily with student activities and those events having particular reference to local campus life.

The staff officers are: Don Waldman and Wayne Burk, Editors; Tom Bohrer and Jim Adams, Business Managers; and L. Richard Kitchen, Faculty Adviser.

Back—C. Vander Linden, J. VanAlstine, C. Elrod. Front—D. Waldman, W. Burk, J. Adams, F. Ehrman.

Back—R. Appleby, M. Smith, D. Larsen. Front—H. Ehrman, R. Krause, H. H. Wells.

# THETA TAU FRATERNITY

Theta Tau is the oldest and largest national professional engineering fraternity. Omega chapter was established here on the School of Mines campus in 1932 by the members of Phi Alpha Lambda social fraternity.

The goal of Theta Tau is to advance engineering as a profession through fraternal association of its members. In line with this, Theta Tau also sponsors professional development meetings which are open to all students.

The activities of Theta Tau Fraternity are many and varied; its members represent all departments and are active in all school organizations. Bi-weekly meetings are held at the chapter house at 107 Kansas City. The social activities include a founders day banquet, a Christmas banquet, a western dance (the Cinch-Buckel T), a spring formal, and several smokers.

The officers for this year are as follows: Regent, Melvin Smith; Vice-Regent, Dorwin Larsen; Scribe, Ray Appleby; Treasurer, Harold Ehrman; Assistant-Treasurer, E. Barry Bradshaw; Corresponding Secretary, Russel Krause; Marshall, William Schrag; Inner Guard, Joseph Spencer; Outer Guard, Gerald Munson.

# THETA

Back—J. Major, G. Munson, B. Timmerman, B. Yahne. Front—B. Nicklin, D. Sheldon, T. Waterland.

Back—B. Schrag, H. Sacrison. Front—F. Ehrman, J. Berg.

Back—C. Braun, B. Bradshaw, R. Whitaker, L. Hughes. Front—J. Adams, C. Elrod, D. Hawkins.

# TAU

Back—D. Freeland, A. Satterlee. Front—F. Harris, J. Buttemeier.

Back—J. Bump, R. Noss, B. Pecha, J. DesJarlais. Front—E. Babayan, D. Coe, P. Kappenman.

Back—W. Burk, J. Spencer, R. Warder. Front—L. Riemenschneider, D. Grow, K. Sunding.

# TRIANGLE FRATERNITY

Back—A. Liffengren. Front—C. Spiece, H. Yeager.

Triangle is the only social-professional fraternity established exclusively for engineers and architects at the South Dakota School of Mines. The purpose of the fraternity's members is to strive to maintain a creditable scholastic record, promote the welfare of the engineering profession and help create in the chapter home an environment in which enduring friendships may be formed.

In all its activities, Triangle conducts its affairs conservatively and on the basic premise that the ultimate benefit to its members as men, engineers, and citizens, shall shape the policies of the fraternity.

Annual social activities include Thanksgiving Banquet, Christmas Tom and Jerry Party, Christmas Formal Mardi Gras Party, Spring Pizza Party, National Intra-fraternity Basketball Tourney, Spring picnic and the Spring Formal.

The officers are: President, A. Liffengren; Vice-president, M. McGee; Recording Secretary, D. Stork; Corresponding Secretary, R. Welter; Treasurer, T. Lyons; House Note Treasurer, C. Spiece; Historian, C. Westley; Editor, D. Sherman; Scholarship Officer, R. Buck; House Manager, M. Stangeland.

Back—T. Vance, L. Larson, D. Stork, Z. Palen, C. Weber.
Front—D. Davidson, D. Moden, E. Bowen, E. Bearg.

# TRIANGLE FRATERNITY

Back—J. Thompson, J. Erickson, L. Steege,
D. Sonestegard, D. Orr. Front—R. Rath,
C. Vander Linden, B. Quintal, H. Fawcett.

Back—F. Klawiter, D. Iltis, E. Peacore, T. Lyons. Front—D.
Buck, D. Sherman, M. McGee, J. Wilsey.

Back—C. Westley, R. Kiel, D. Rozendal, D. Devine, B. Newman. Front—B. Kelley, M. Stangeland, R. Welter, L. Simons.

# TRIANGLE FRATERNITY

Back—J. Miller, D. Brost, P. Clare, W. Conley, M. Smith. Front—Q. Lee, E. Kjerulff, E. Poch, J. Gibeau.

Back—D. Laughlin, W. Reinsmith, E. Stewart, D. Malthouse, H. Nelson. Front—R. Rieger, B. Richardson, L. Meeks, A. Hins.

# WHO'S WHO

Back—B. Gregory, D. Larsen, H. Isaak, M. Smith, A. Liffengren, B. Spars, R. Schmidt, R. Briggs. Front—
R. Varilek, J. Bauch, B. May, T. Robertson, D. Waldman, L. Hanson. (Not pictured) J. Lanphere.

Recognition to outstanding senior students in colleges throughout the nation is given through membership in "Who's Who in American Universities and Colleges." The members are selected on the basis of scholarship, campus leadership, influence on school life, promise for the future, character, and personality. These young men have been outstanding on our campus, and they will undoubtedly carry these qualities of leadership with them as they enter industry.

# OFF-CAMPUS ORGANIZATIONS

There are many groups and activities that are not connected with the campus activities where Tech students have found diversion and interest. Outstanding among these groups are the young-adult organizations associated with the local churches. Unfortunately some of the groups are not pictured here. The Westminster Club and the Walther League are two of the groups not shown.

## LUTHERAN STUDENT ASSOCIATION

The LSA has the unique privilege of participating in regional and international workshops and conferences through its affiliation with the Lutheran Student Association of America. Its members find a variety of activities including worship, study and recreation. The facilities of Trinity Lutheran Church are used for the meetings which start at 5:00 p.m. every Sunday. Its members come from the airbase, School of Business, Mines and various businesses in Rapid City. Work among students in underdeveloped foreign countries is supported by the LSA through contributions to LSAction.

An LSA deputation team leading a devotional service for shut-in patients at Sioux Sanitarium. Some of the patients can be seen in the lower right.

The membership does not come from one particular church but rather brings together a cross-section of many denominations.

## BIBLE STUDY GROUP

Three years ago a small group of Miners who wanted to know their Bibles better began setting aside a couple of hours a week to get together for an informal Bible study. Some have left the group, others have joined since that time. The study is lead by the members of the group themselves. The Book of Romans in the New Testament has been the basis of discussion this year.

## NEWMAN CLUB

Coffee Break

Father Plant, the group adviser, leading a discussion on a film that was just shown.

Newman Club is the name of the college-age group that meets at the Immaculate Conception Cathedral. This group gives the Catholic men at Mines an opportunity to meet socially and make acquaintances with people their own age outside the campus community. The members, which are drawn from local working people, airbase personnel and Tech students, are learning to know their church better and know their responsibilities as Christians under the direction of Father Plant. Study, worship, and recreation all have a place in the Newman Club.

# THE QUESTERS

Soup's on for the Questers

First Methodist Church is host each Sunday to the group of airmen, Miners, and many other college-age men and women who have called themselves Questers. Their quest is for a fuller understanding of their church and the Bible. In this quest they have found fellowship in a Christian environment.

An informal group discussing their responsibilities as Christion winesses.

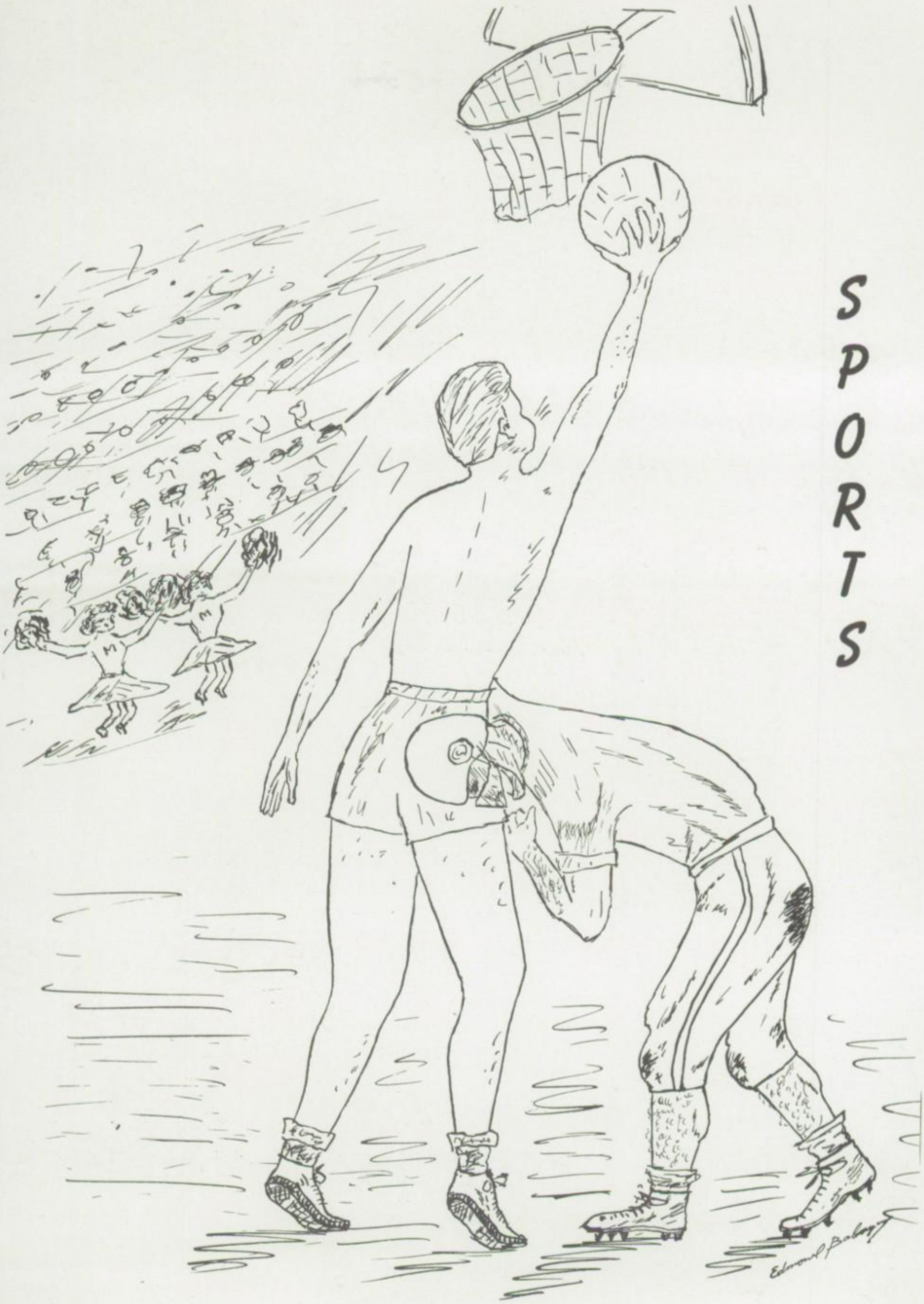
# PRESBYTERIAN COLLEGE-AGE GROUP

Rev. Russell Tate, Associate Pastor First Presbyterian Church and adviser to the college-age group.

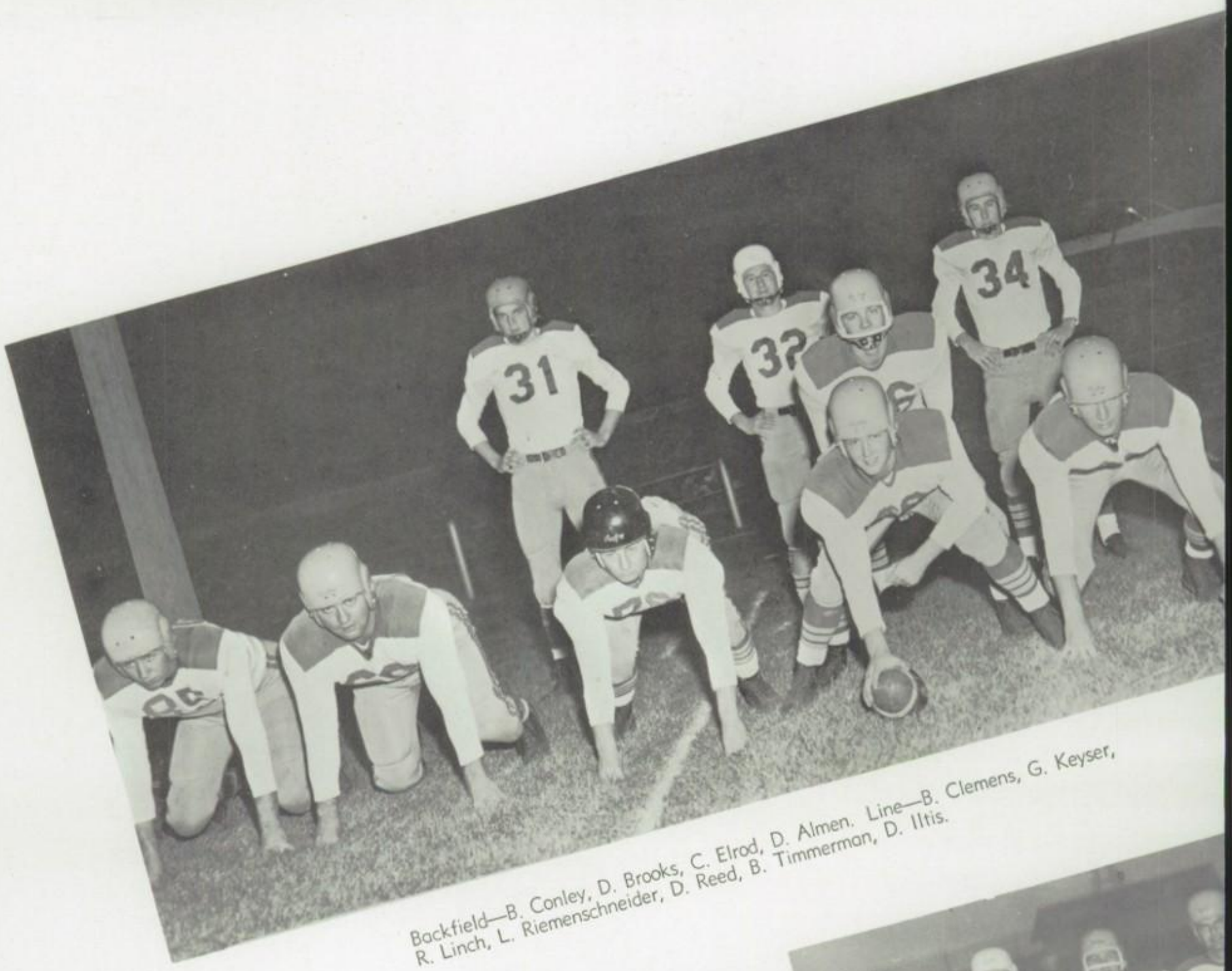
At six o'clock every Sunday several Miners meet with others of their own age at the First Presbyterian Church for an evening of fellowship, worship, and study. Occasionally meetings are held jointly with other college-age groups to broaden their understanding of the Christian influence in the community.

"Pot-luck" at the Presbyterian Church social room at a combined meeting of the Presbyterian and First Methodist college-age and Senior High groups.

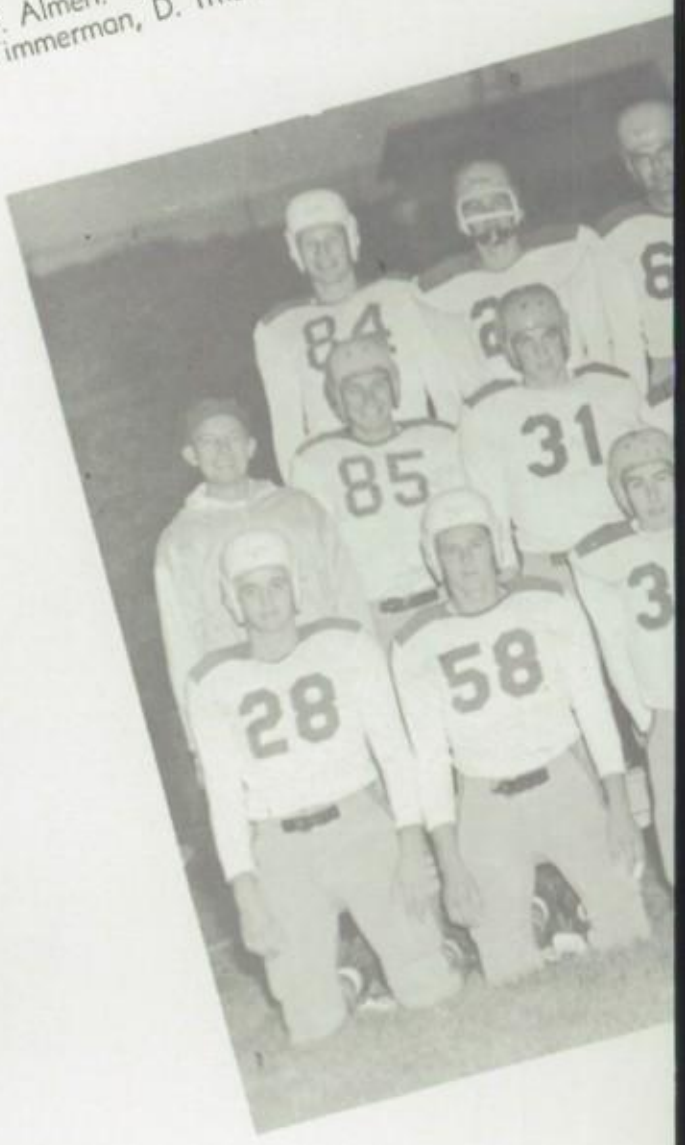
# SPORTS



# FOOTBALL

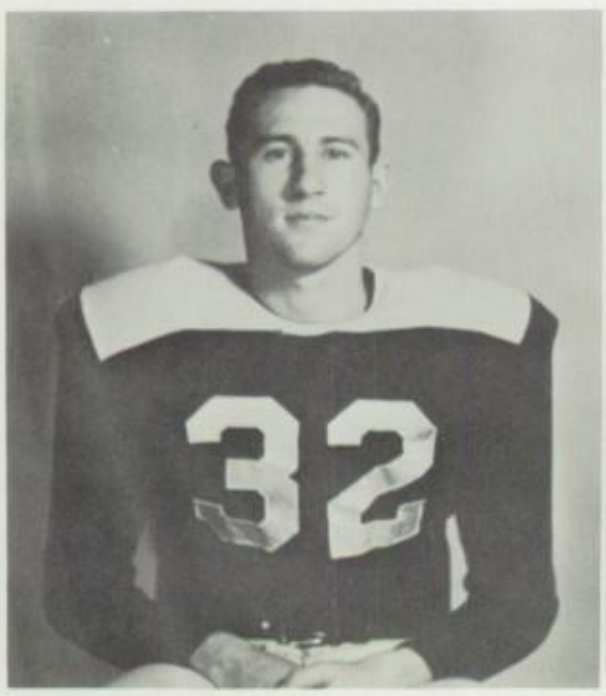


Backfield—B. Conley, D. Brooks, C. Elrod, D. Almen. Line—B. Clemens, G. Keyser, R. Linch, L. Riemenschneider, D. Reed, B. Timmerman, D. Iltis.

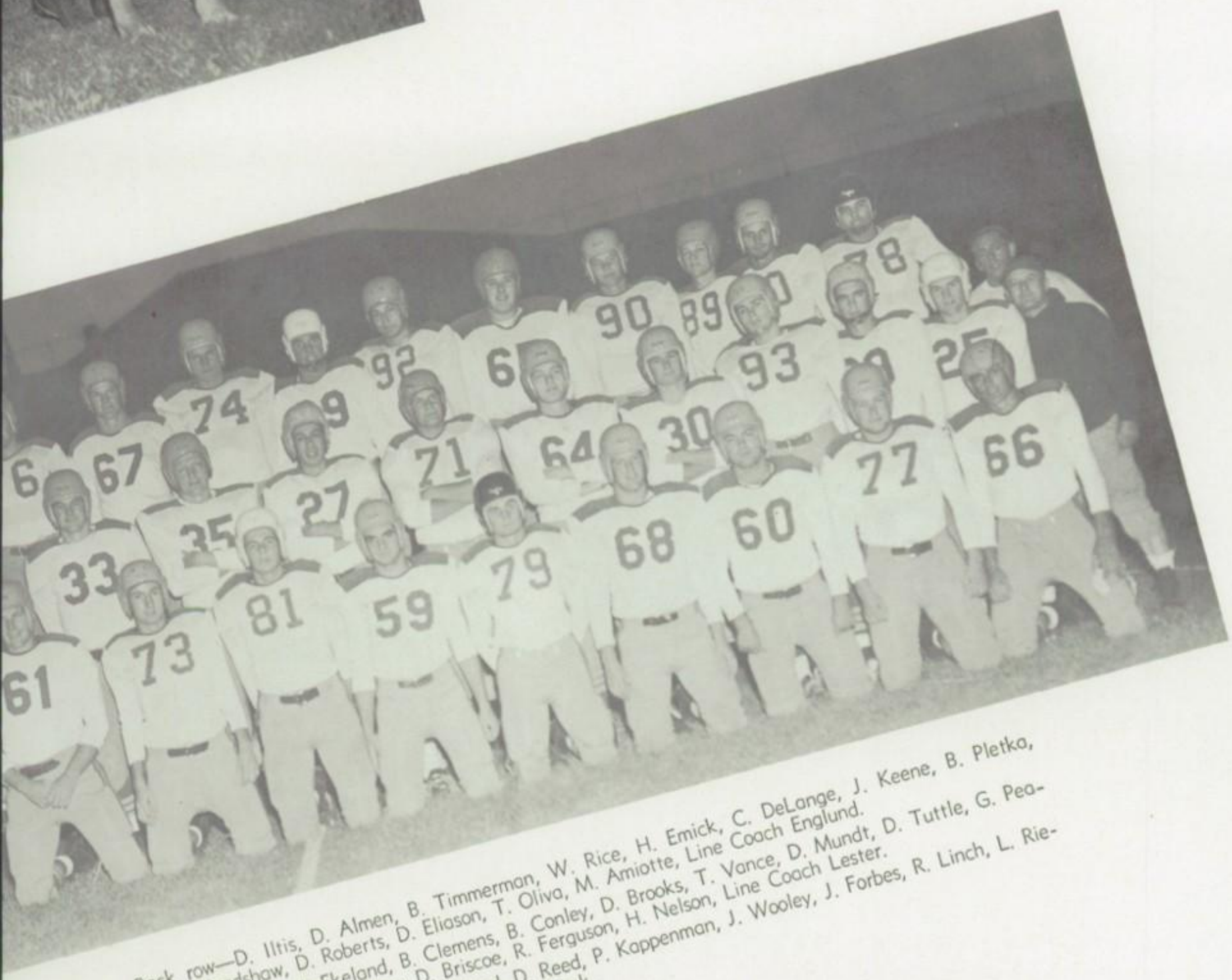


## CO-CAPTAINS

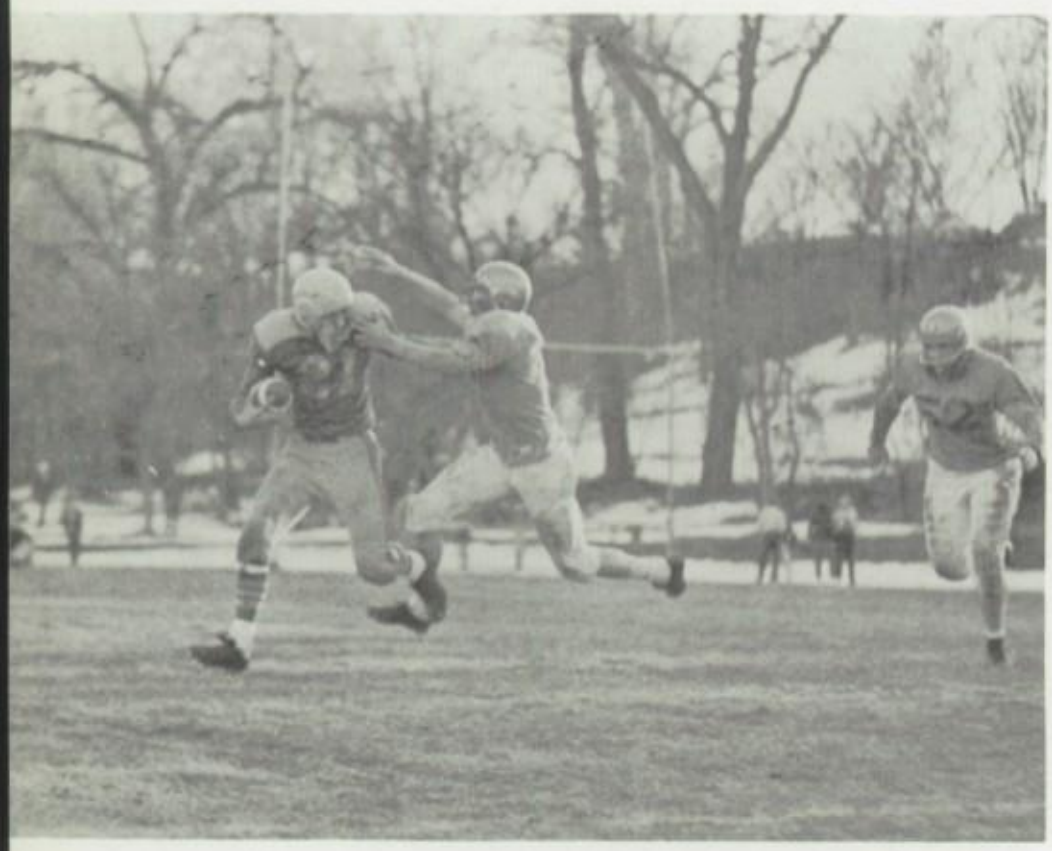
D. Brooks — L. Riemenschneider



Coach Ekeland and squad



Back row—D. Iltis, D. Almen, B. Timmerman, W. Rice, H. Emick, C. DeLange, J. Keene, B. Pletko, B. Bradshaw, D. Roberts, D. Eliason, T. Oliva, M. Amiotte, Line Coach Englund.
Middle row—Coach Ekeland, B. Clemens, B. Conley, D. Brooks, T. Vance, D. Mundt, D. Tuttle, G. Peacore, D. Rogers, J. Dixon, D. Briscoe, R. Ferguson, H. Nelson, Line Coach Lester.
Bottom row—R. Kiel, D. Scherr, C. Elrod, D. Reed, P. Kappenman, J. Wooley, J. Forbes, R. Linch, L. Riemenschneider, G. Keyser, B. Miesen, L. Cook.



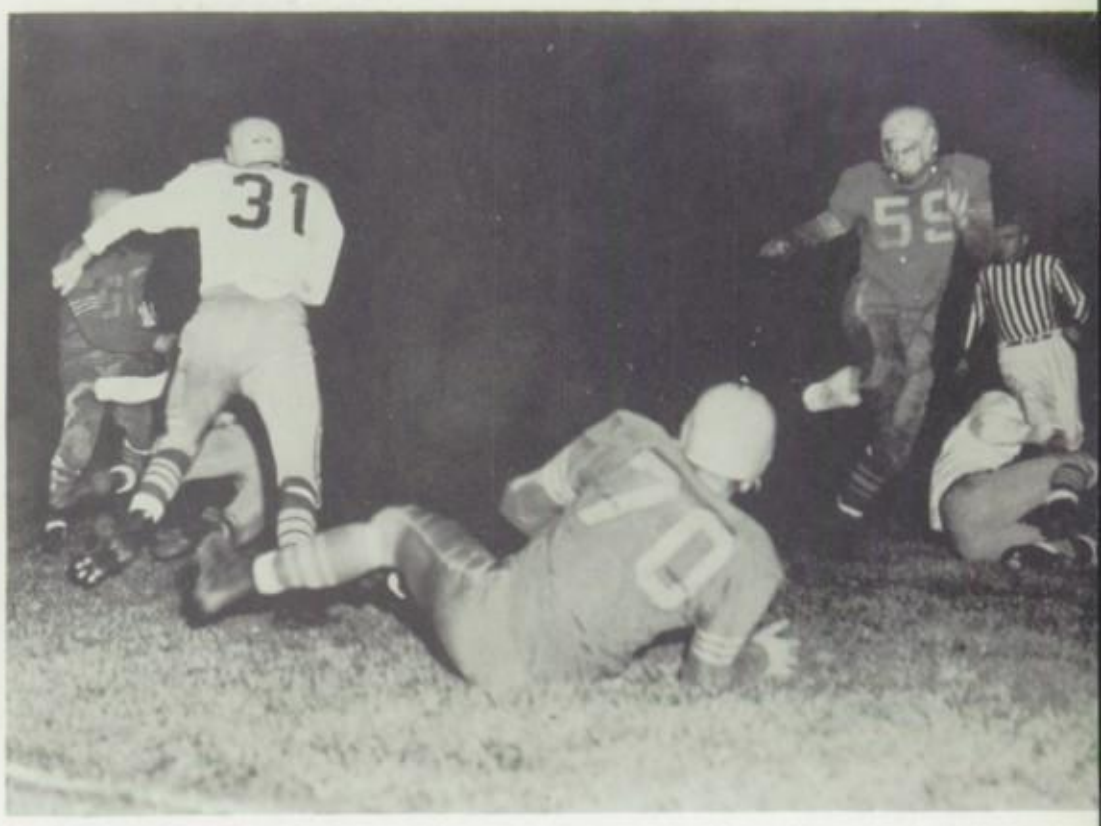
## CHADRON 26 TECH 0

In a ball game played at O'Hara Field, the Tech squad held a more seasoned Chadron club on even terms for the quarter. Quarterback Jones of the Eagles was outstanding, as were Osborn, Van Buskirk and Schoff. Fumbles and interceptions stopped many threats by each ball club. Tech had penetrated to the Eagle's 24 on its first drive only to lose the ball on a fumble. The Eagle's halftime score of 13-0 was built on scoring runs of 1 yard by Jones and 24 yards by Van Buskirk. In the third period, Chadron scored twice — Van Buskirk and Osborn doing the honors.

## DAKOTA WESLEYAN 20 TECH 0

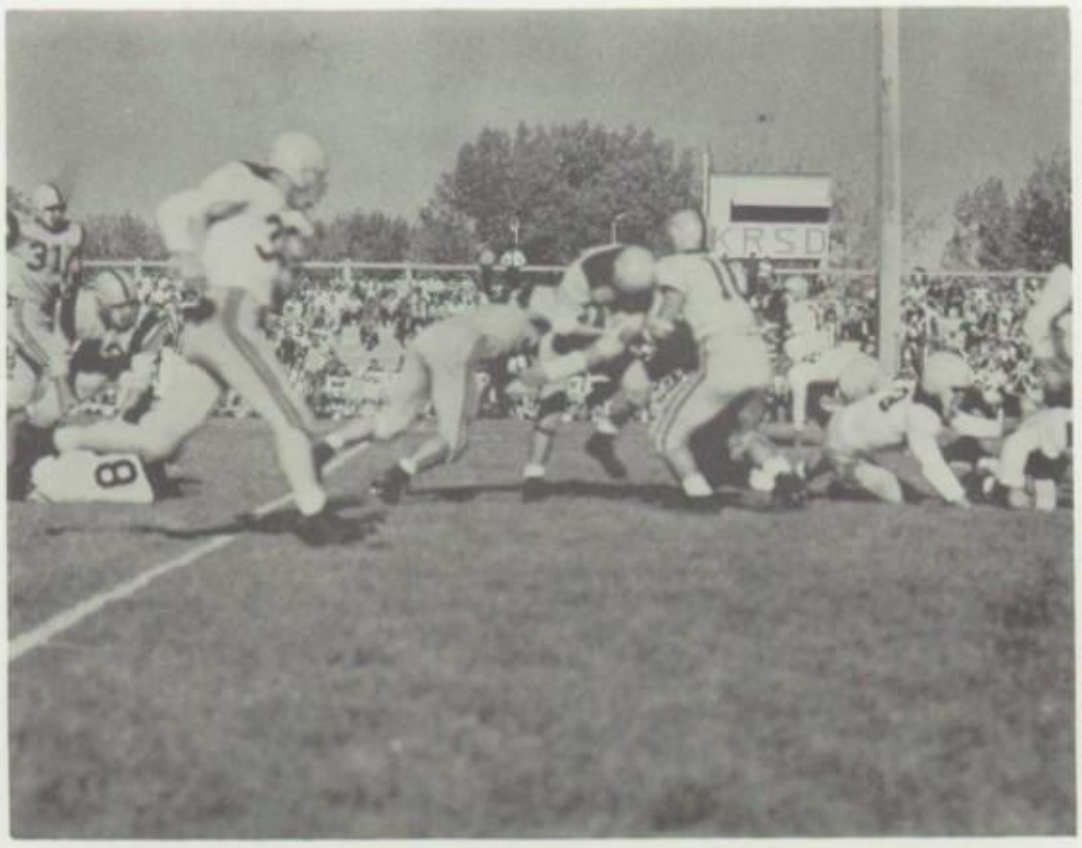
The Tech squad played great ball between the 30 yard lines, but when it came time to score, the Engineers couldn't come up with one. Darral Brooks pounded out many yards for the Miners. Christensen looked good until an injury sidelined him. On defense Rogers, Keyser and Riemenschneider were outstanding. Halfback George Smith dashed 25 yards for the initial score in the first period. In the second period, halfback Handel drove across from the 1 yard line for the Tiger's second score. The Tech squad drove to the Tiger's 6 as the half ended. A pass from Flynn to Smith set up Wesleyan's third and final score.

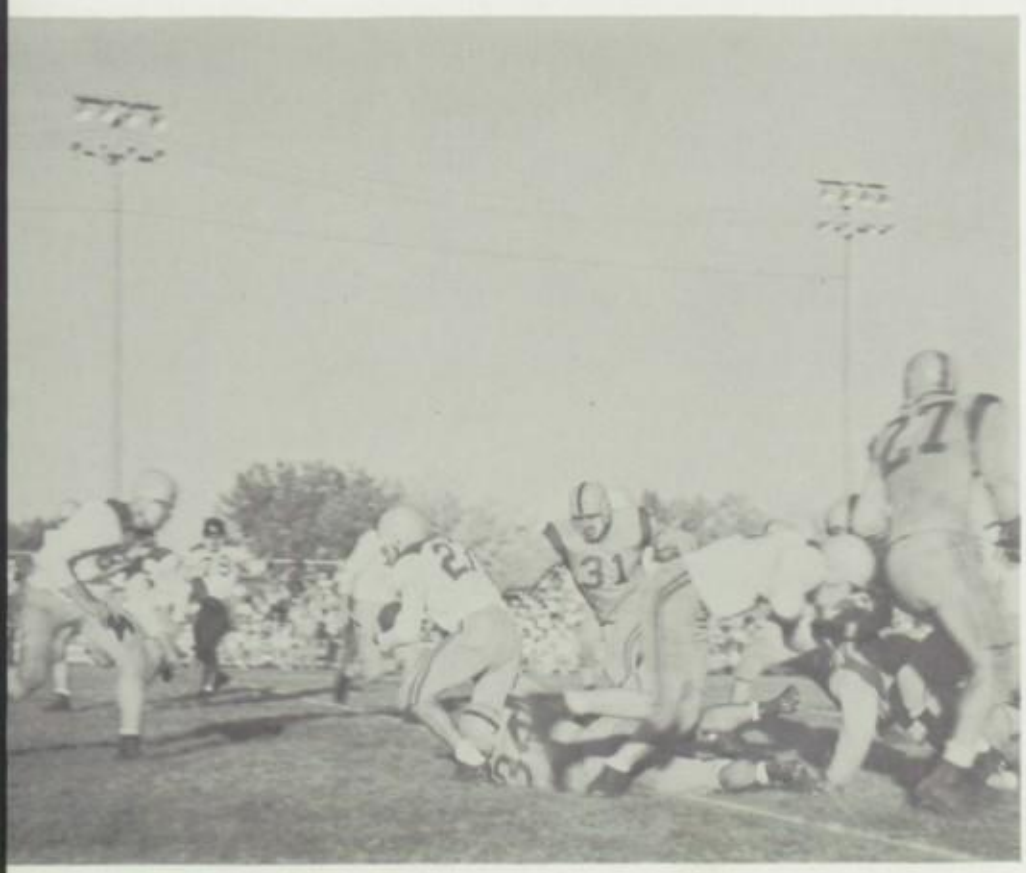
## SOUTHERN 28 TECH 0



In the first quarter, Tech's initial drive was stopped on Southern's 30 yard line, but the opponents were able to complete their first drive as Sudbech went across from the 1 yard line. Almen hit Clemens for nice gains that brought the ball to the 23 yard line, but Southern recovered a fumble and after a couple of short gains, Westling took the ball over on a 54 yard run.

In the third period Sudbeck drove around left end for 19 yards and a score. Again Almen, and this time Brooks, maneuvered the ball to Southern's 16 only to turn the ball over to their opponents by a fumble. Ronnie Baver went 14 yards for a score in the fourth frame.





## HURON 40 TECH 7

Huron put three scores over in the first half; Gunderson on a 37 yard sprint, Henley from the 15 yard line, and Coyle took a pass from Wiren for the third TD. In the second half Gunderson scored from the 34. Tuttle, a freshman, led the Tech squad to a TD on a 58 yard drive. Coyle of Huron scored from the 1 yard line. Heir scored from the 29 yard line for the final score.

## YANKTON 27 TECH 13

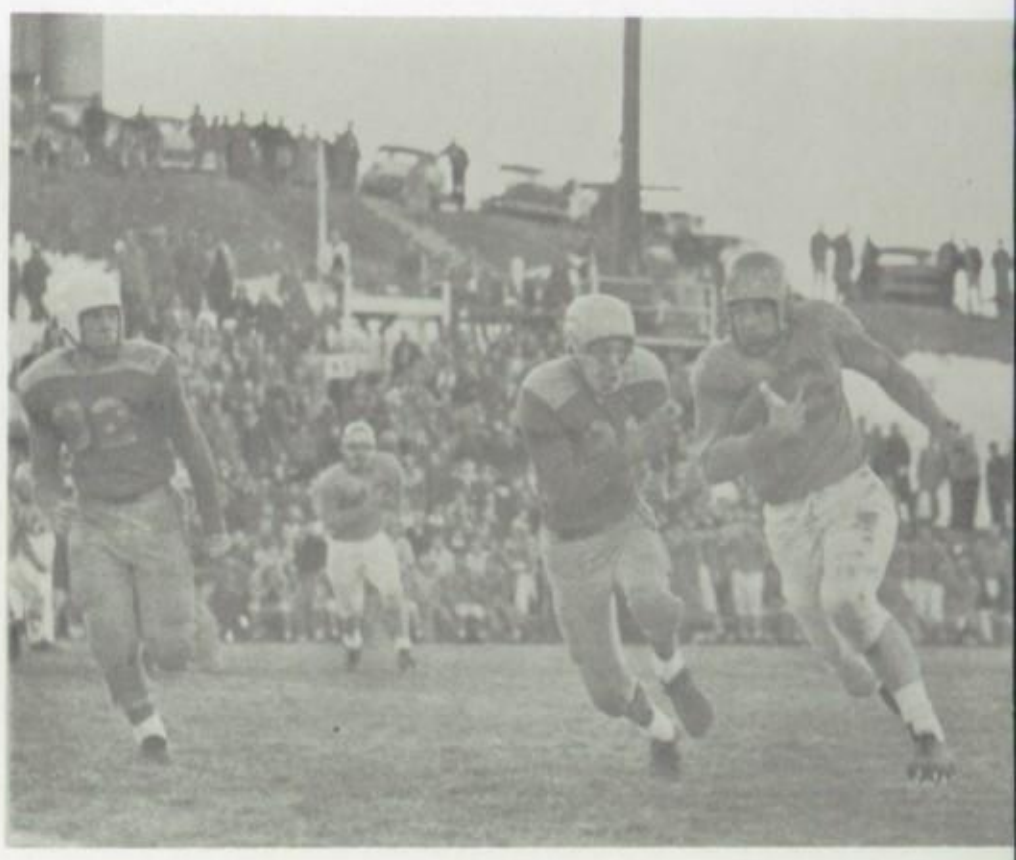
Yankton opened the scoring with three TD's in the first half. Tech was unable to get moving and was on defense most of the time. Halftime score was Yankton 19, Tech 0. The second half found Mines dominating the play. They started with a drive of seventy yards climaxed by a two yard plunge by Elrod. The other Tech drives were stopped short in this period. One on the 30 and the other on the 11 yard line. Graves dashed 41 yards to pay dirt in the final stanza. Tech came back on a pass from Tuttle to Elrod for 11 yards and the final score.

Coach
Clare Ekeland

## BEADLE 13 TECH 13

Tech scored first in the opening quarter with Conley going over from the two. A Miller to Mathews aerial tied the score in the second. Mines received the ball and there on the 1 yard line the half ended.

In the third frame Tuttle flipped a pitch out to Jerry Dixon, who scooted in for a tally with Davidson kicking. In the fourth, Miller hit Degnalshe in the end zone for the tieing score. Miller passed again for the extra point.



NORTHERN 45 TECH 6

Tech played tough on defense in the first quarter forcing Northern to punt on many occasions but Northern's Leidholdt still managed to make two touchdowns. The score at the half was 10-0 with Northern on top.

Highlight of the second half was Bill Conley's sprint of 62 yards on a quick opener up the middle.

Student Manager
Dennis Bitz

B.H.T.C. 47 TECH 7

Yellowjackets scored in the opening frame with Middleton reversing his field going 42 yards for a score, and Bovee scoring in the second from the 9 yard line. Louie Riemenschneider, Tech's center, scored Mine's first and only touchdown by recovering Ham's fumble in the end zone. Half score 14-7. After the intermission, fumbles broke the game wide open, Tech was unable to muster a drive, and the teachers seemed to cash in on every break. Thus ended a not too successful season.

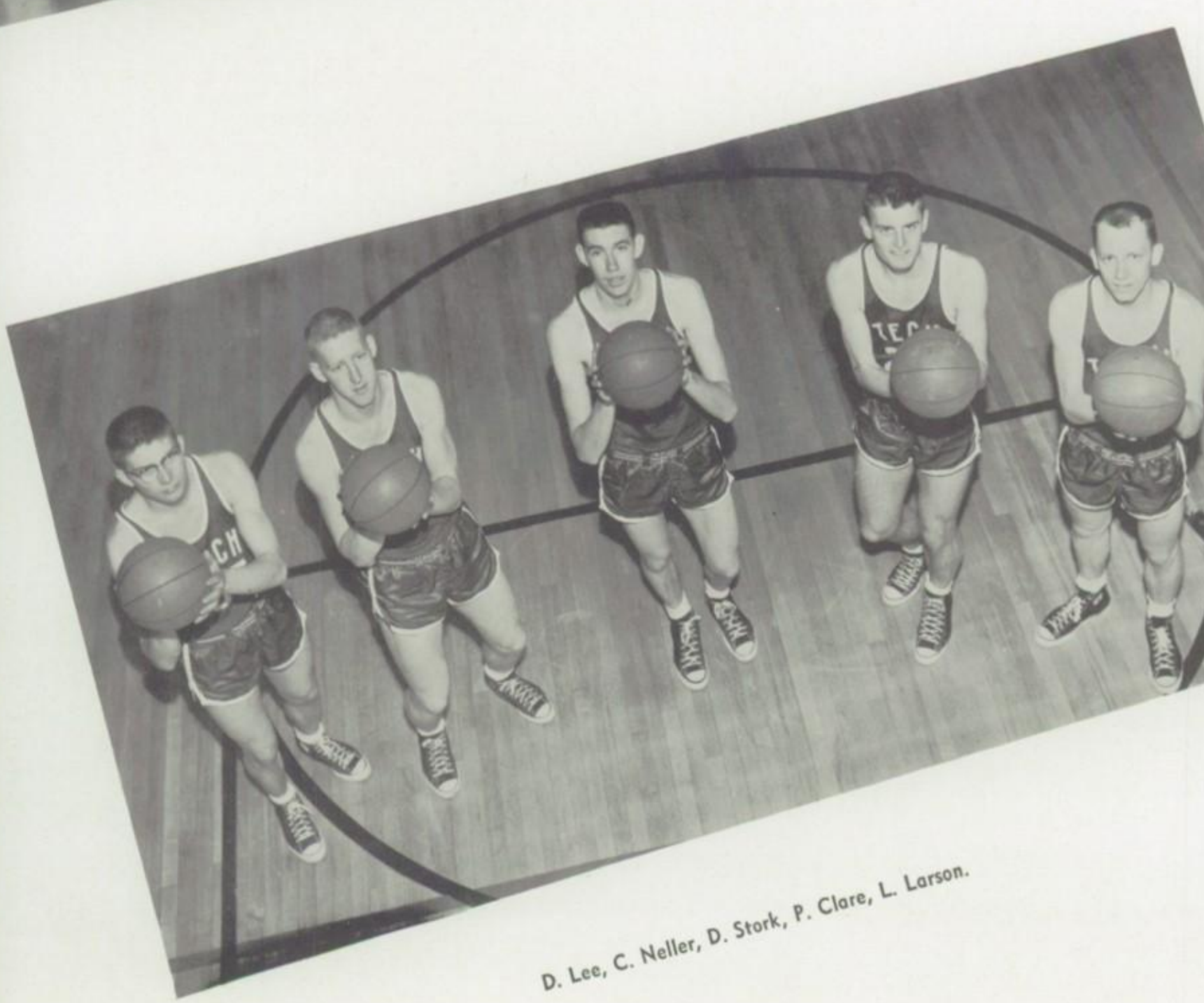
Back row—L. Lindquist, R. Platt, W. Ferguson, P. Wolf, K. Stone, D. Brost, D. Brooks, D. Tuttle, Coach Hunt.
Front row—B. Kelley, P. Clare, C. Neller, D. Stork, L. Larson, D. Lee, D. Neller.

| MINES | | OPPONENTS |
|---|---|---|
| 55 | Sheridan, Wyo. | 48 |
| 52 | Sheridan, Wyo. | 57 |
| 92 | Chadron, Nebr. | 69 |
| 71 | *Yankton | 63 |
| 74 | Ellendale, N. D. | 64 |
| 74 | *General Beadle | 65 |
| 82 | **Carroll College | 69 |
| 68 | **Chadron, Nebr. | 70 |
| 61 | *Yankton | 65 |
| 92 | *Southern | 89 |
| 68 | *Sioux Falls | 67 |
| 77 | *General Beadle | 93 |
| 62 | *Huron | 63 |
| 74 | *B.H.T.C. | 53 |
| 70 | *Northern | 74 |
| 69 | Chadron, Nebr. | 84 |
| 75 | *Sioux Falls | 56 |
| 58 | *Wesleyan | 69 |
| 72 | *Huron | 81 |
| 59 | *Northern | 78 |
| 83 | *Southern | 80 |
| 63 | *Wesleyan | 74 |
| 66 | *B.H.T.C. | 73 |

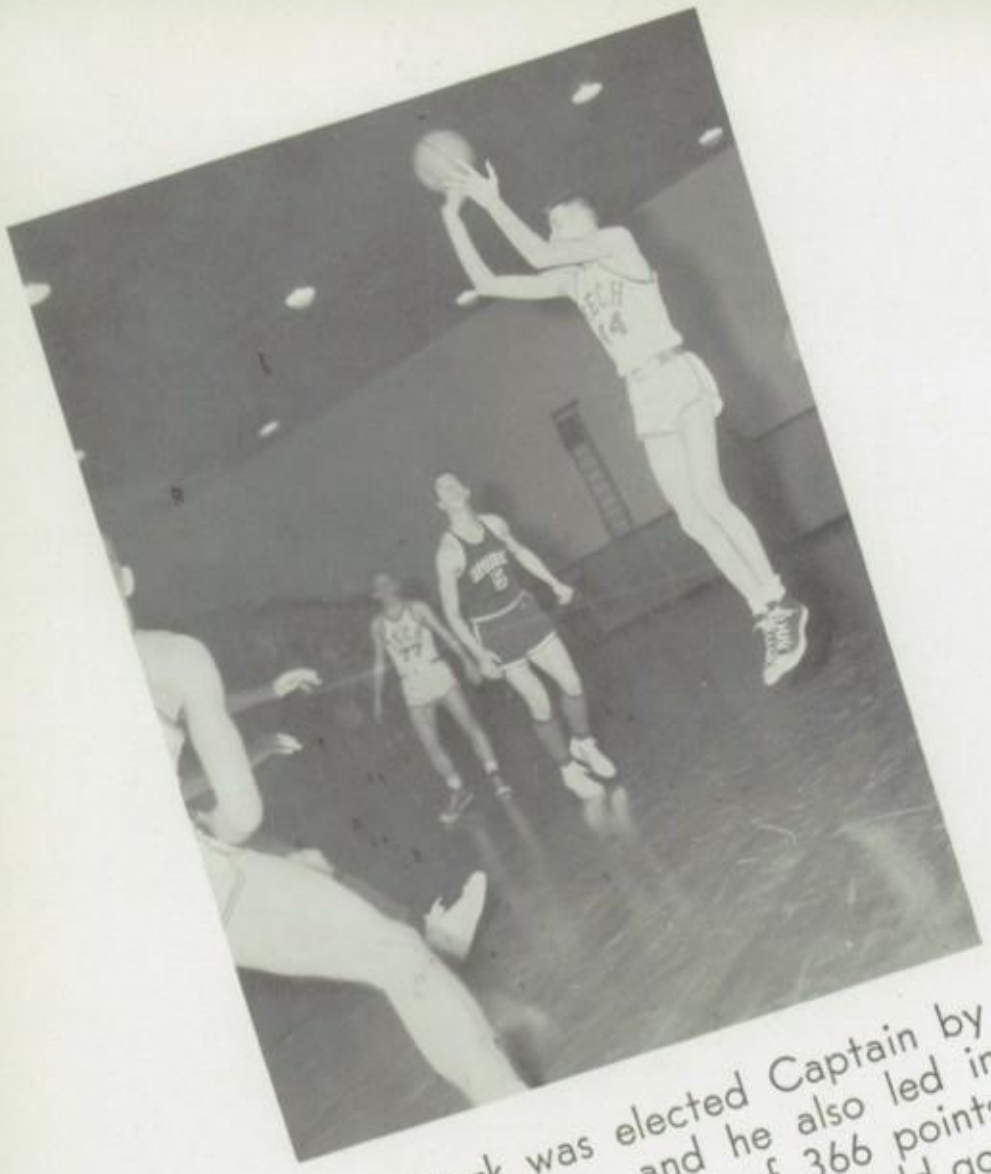
*SDIC Games
**Hardrock Tourney

Coach Hunt

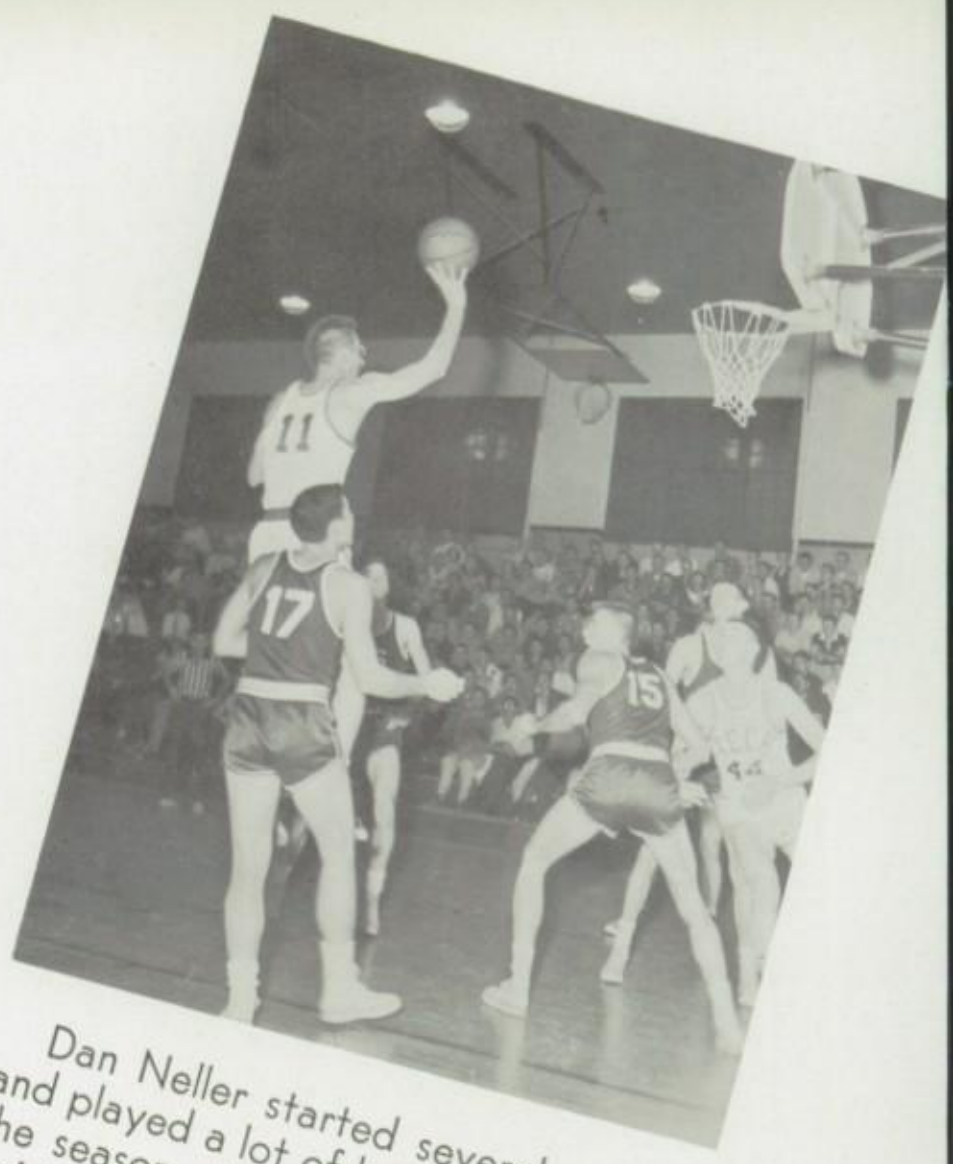
D. Lee: Best free-throw percentage with 69.9%.
P. Clare: Best field-goal percentage with 43%.
D. Stork: Best game average with 15.9 points per game.



D. Lee, C. Neller, D. Stork, P. Clare, L. Larson.

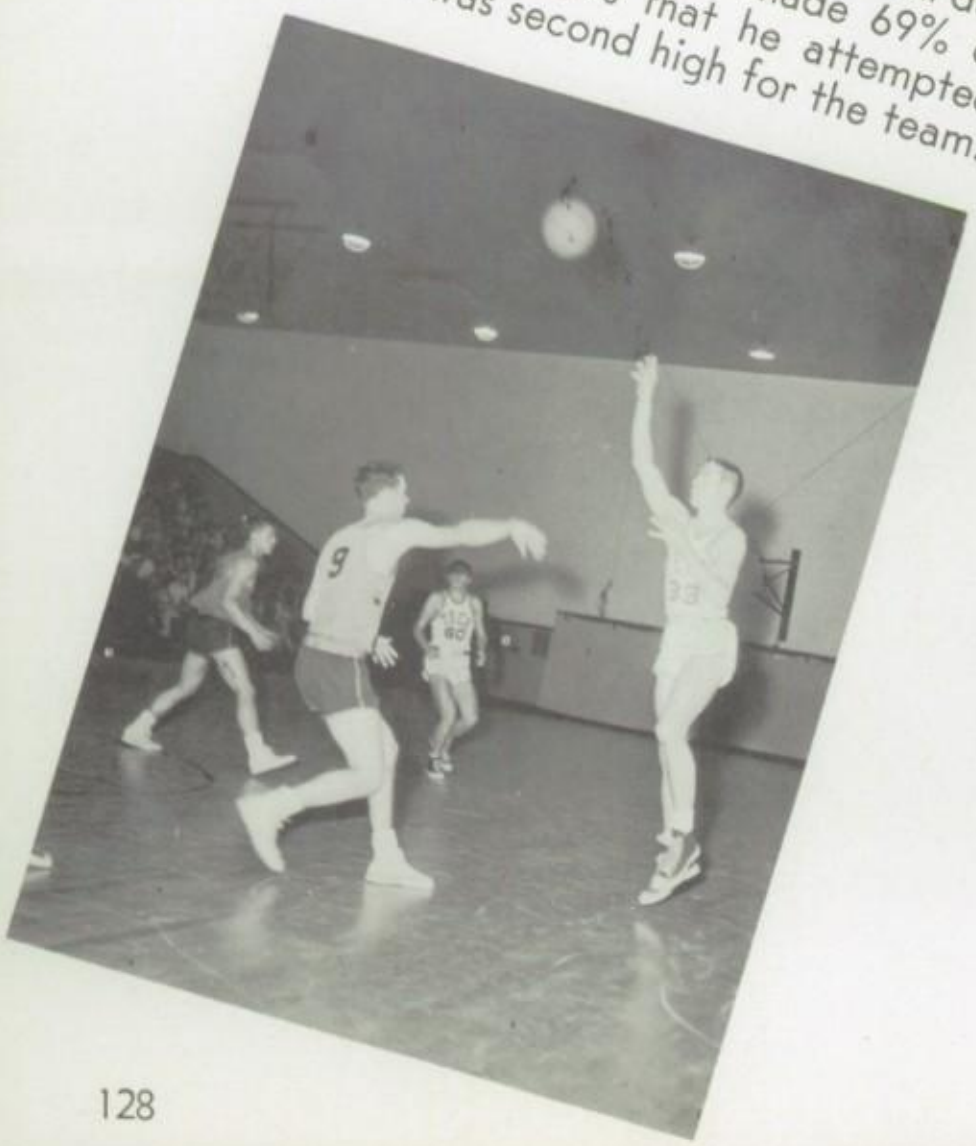


Don Stork was elected Captain by his teammates, and he also led in scoring with a total of 366 points. Don made 38% of his 168 field goal attempts and averaged 15.9 per game.

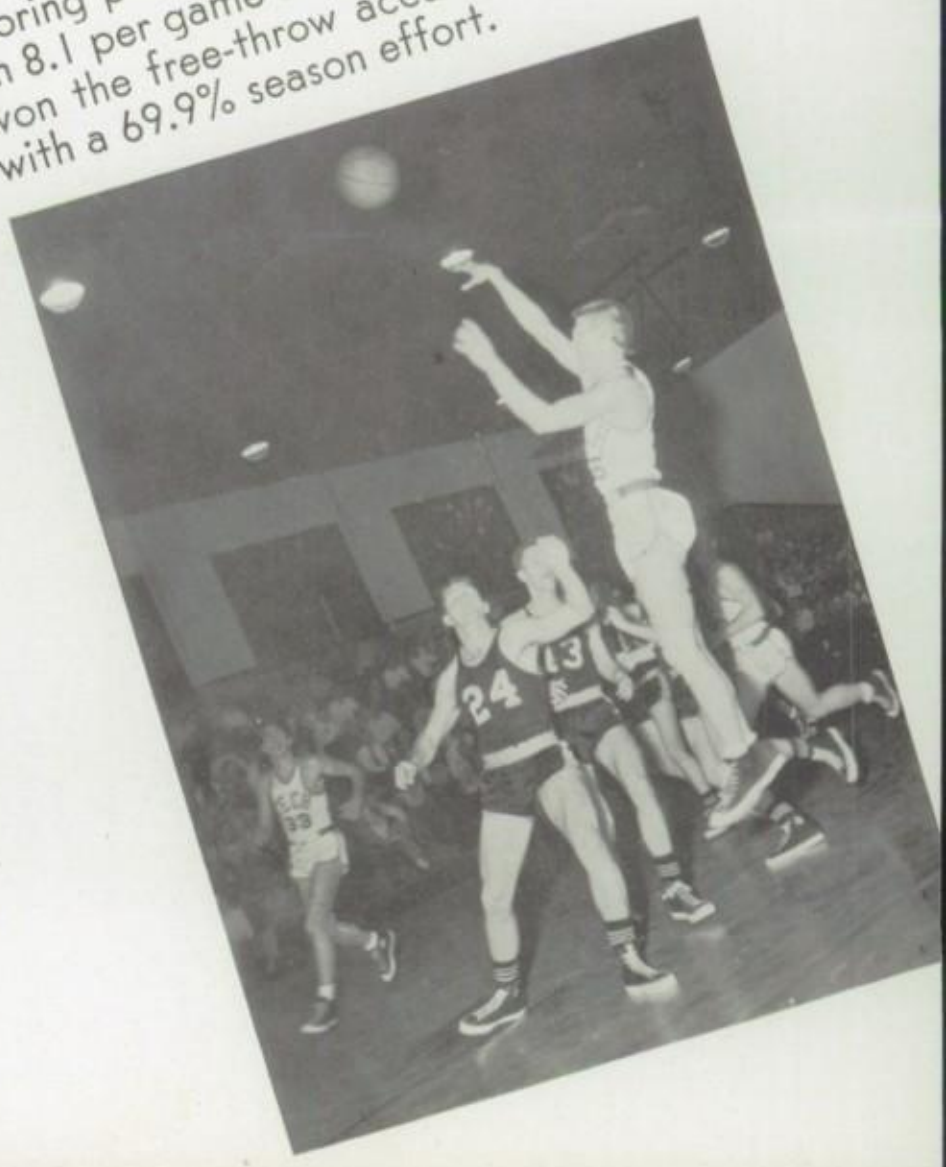


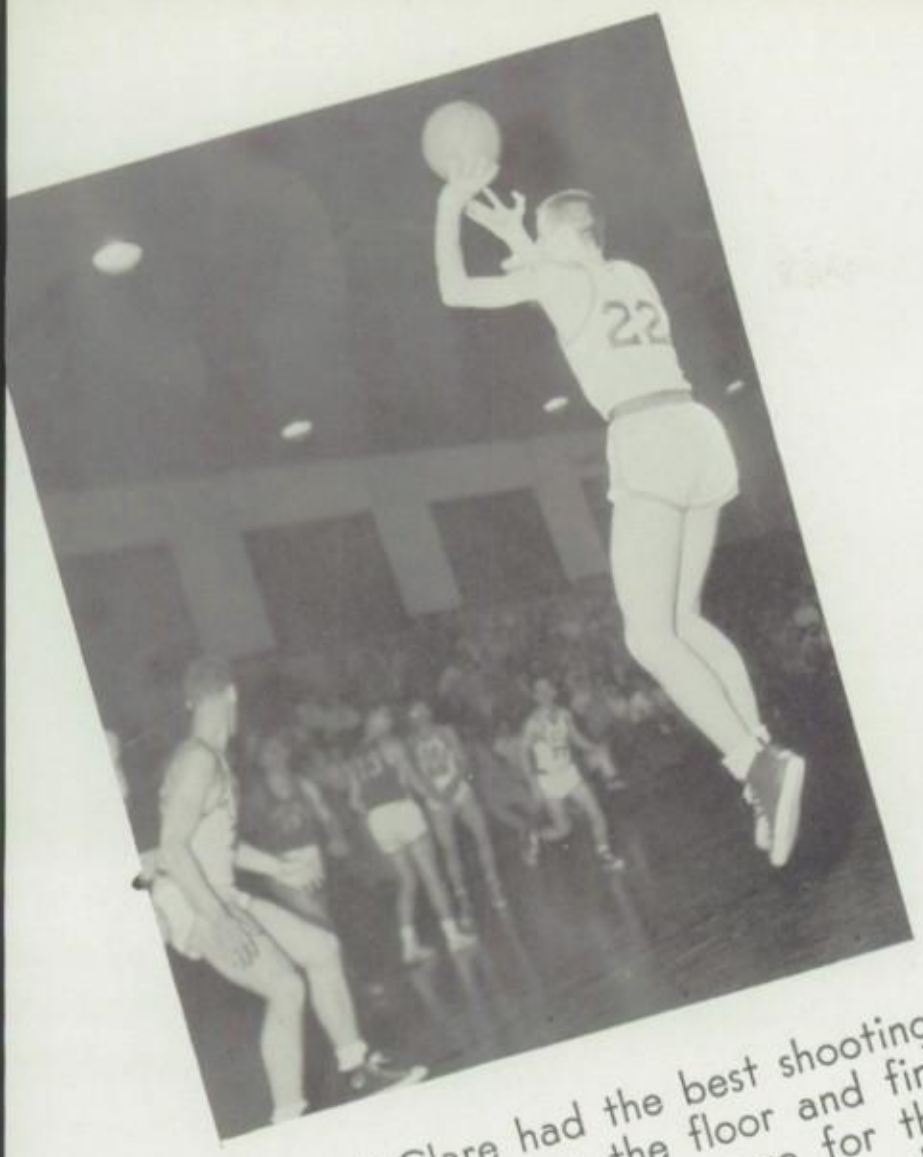
Dan Neller started several games and played a lot of basketball during the season. He made a total of 87 points and averaged 5.4 points per game.

Bob Kelley was never a starter, but he played a lot of basketball during the season. Bob made 69% of the free throws that he attempted which was second high for the team.

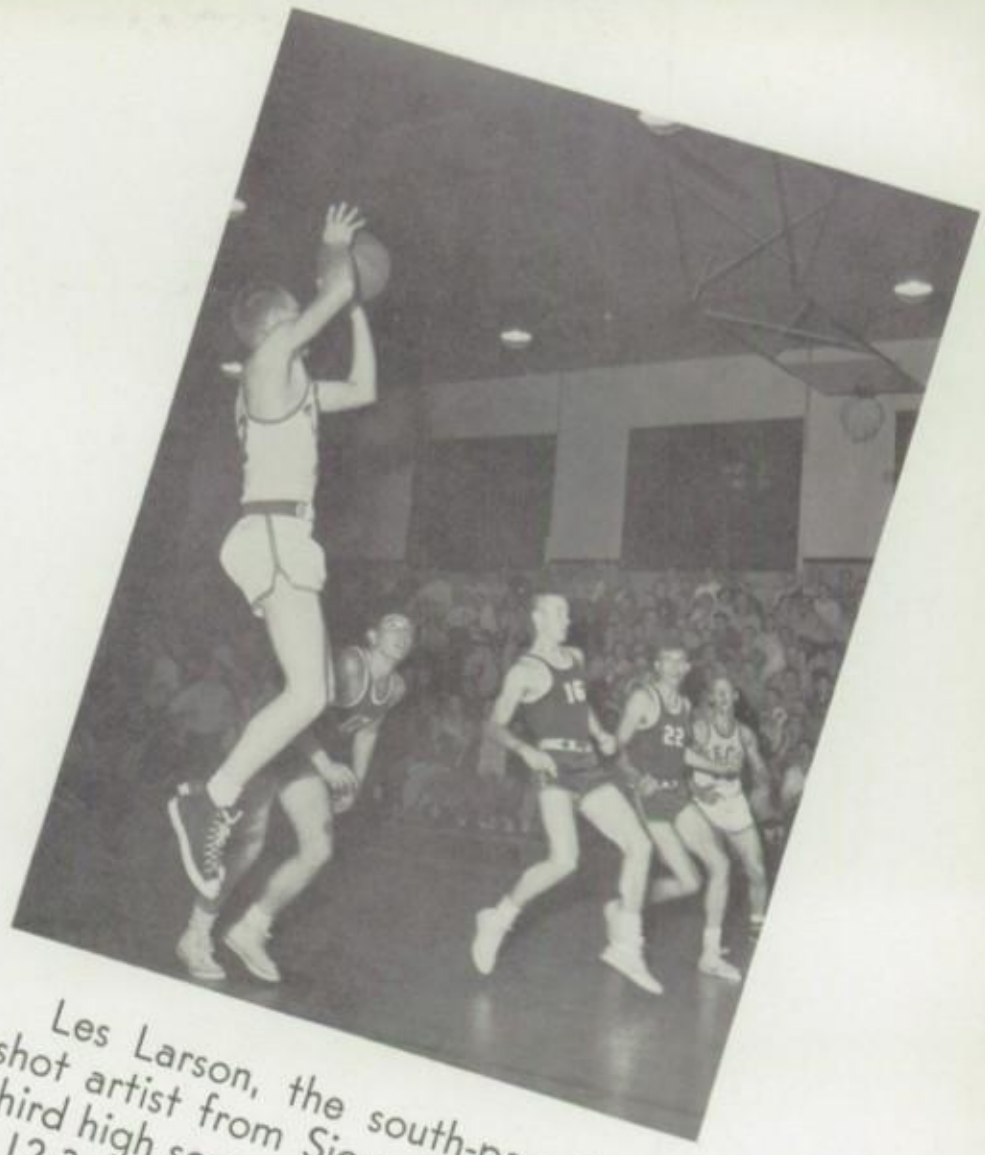


Dick Lee nailed down the fourth scoring position with 189 points and an 8.1 per game average, but he also won the free-throw accuracy trophy with a 69.9% season effort.



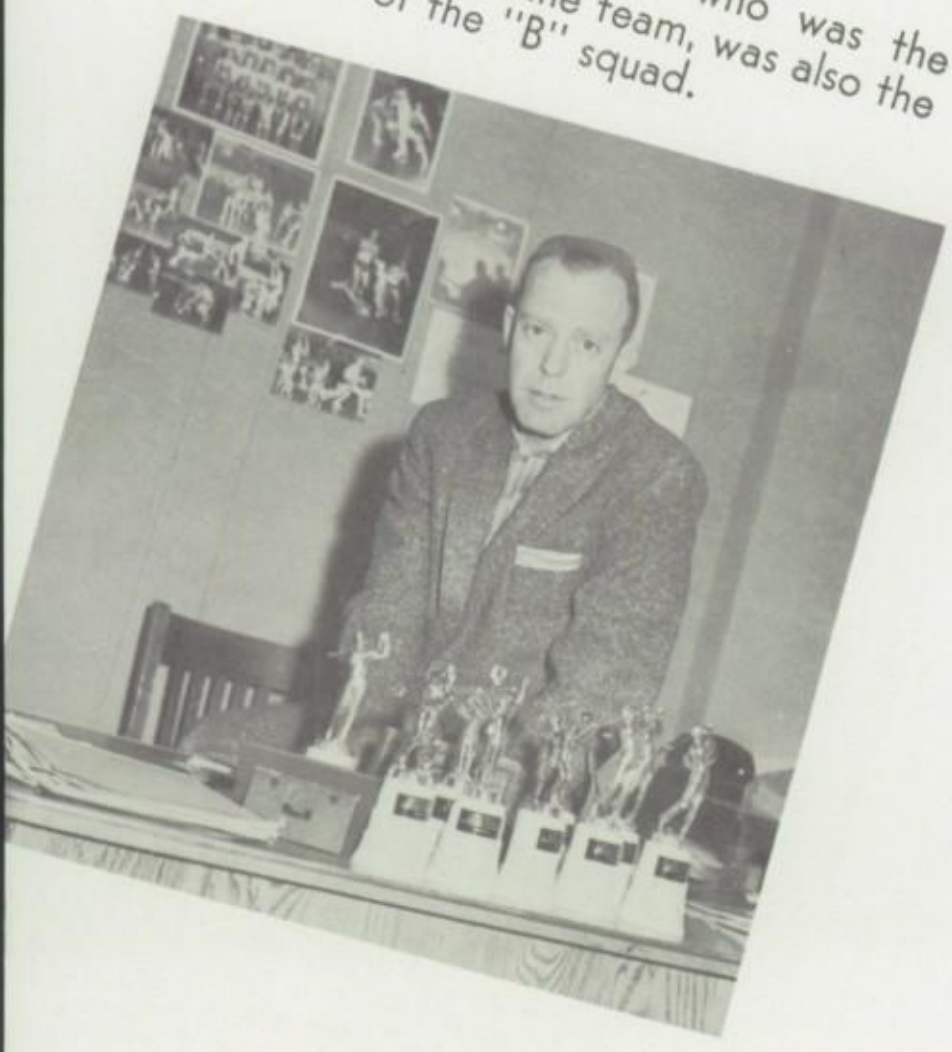


Paul Clare had the best shooting percentage from the floor and finished with a 45% average for the season. Paul made 152 points and a 7.2 per game average.

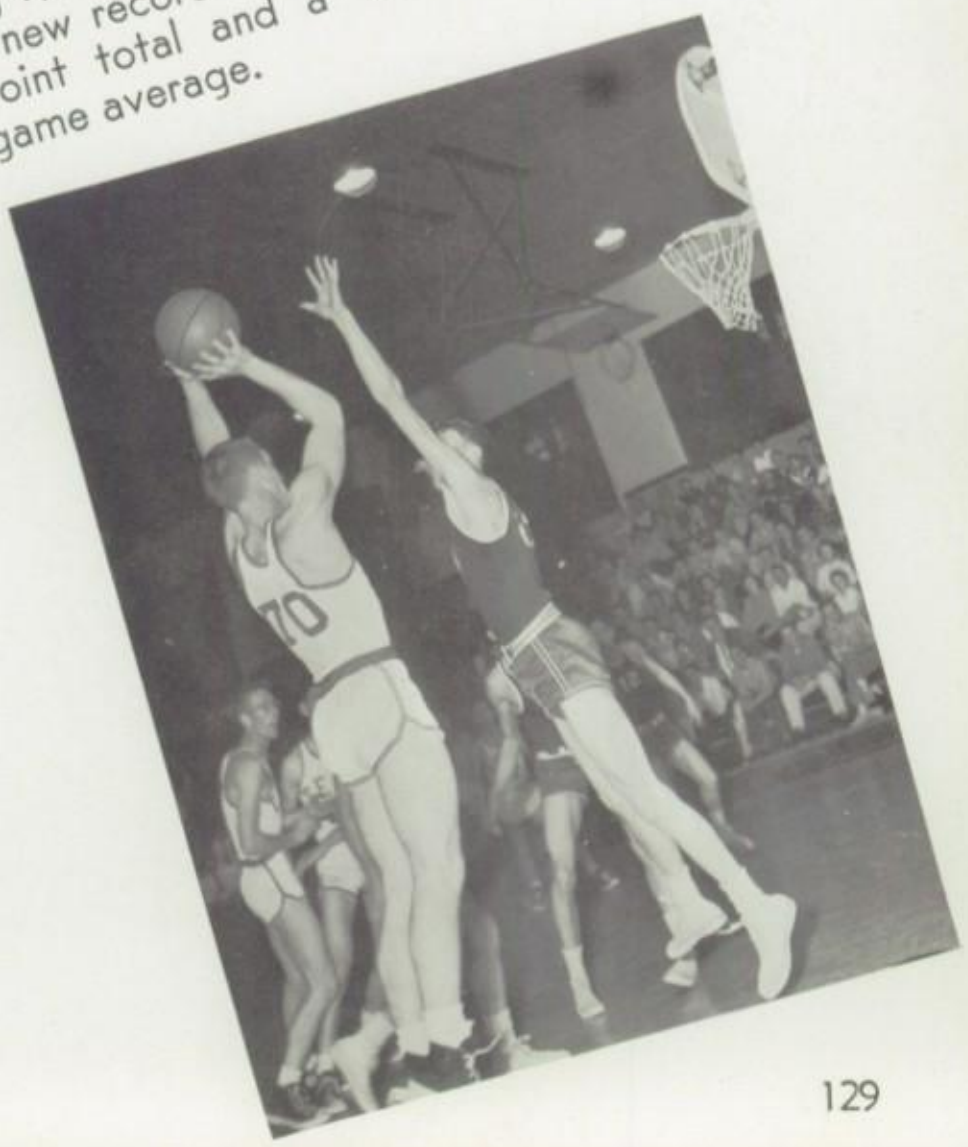


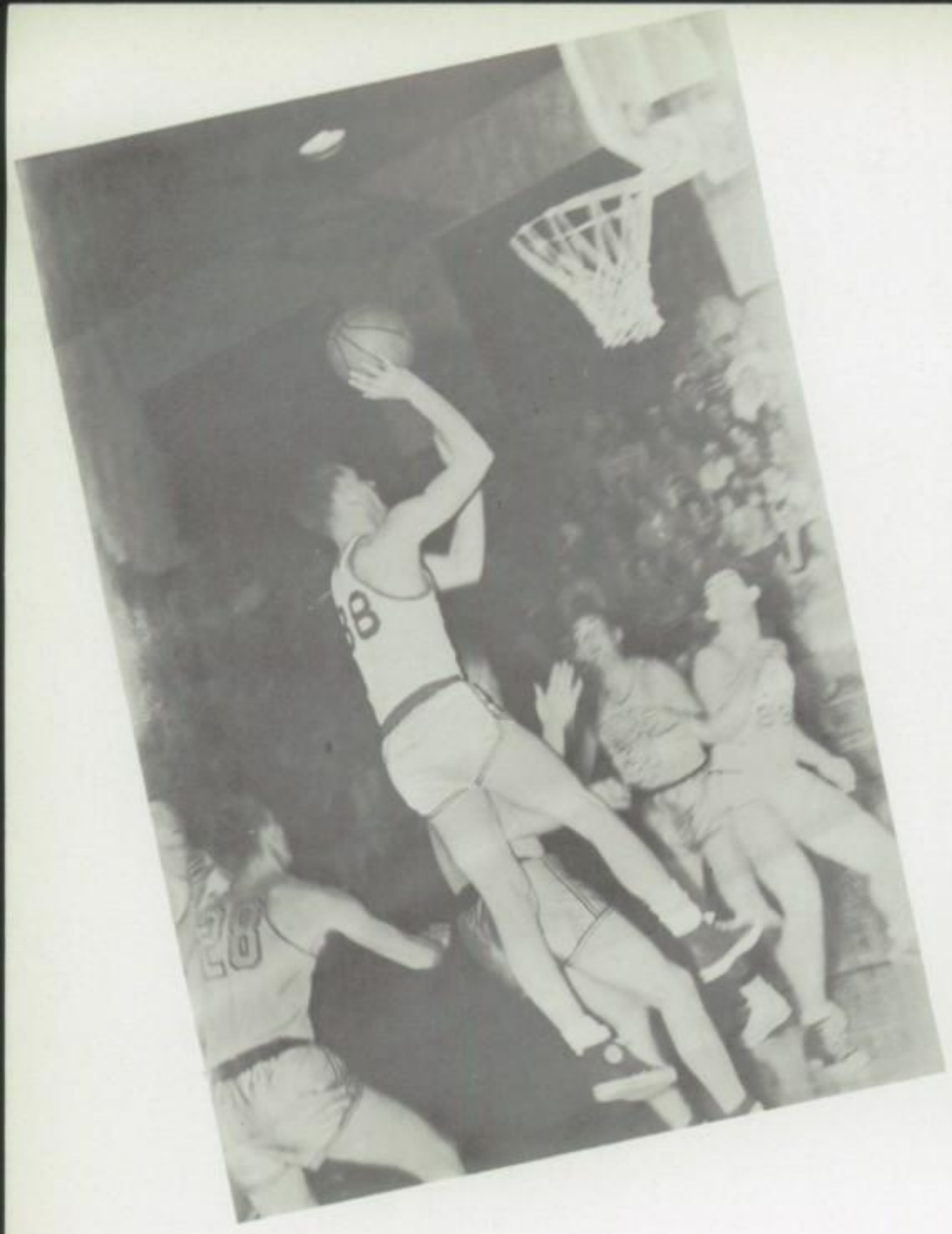
Les Larson, the south-paw jump-shot artist from Sioux Falls, was the third high scorer with 285 points and a 12.3 points per game average. Les also shot at a 40% clip.

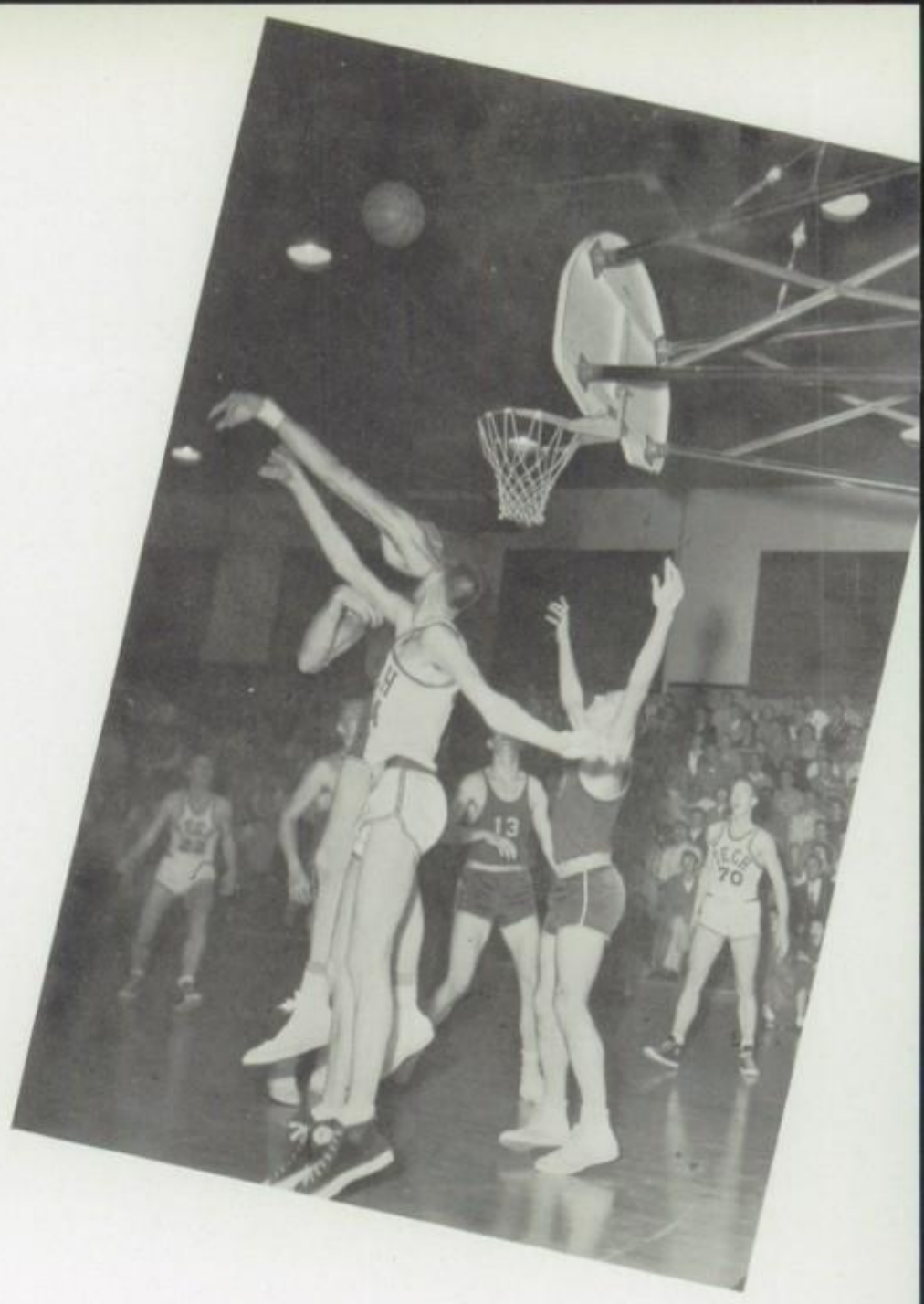
Coach Bob Hunt, who was the coach of this fine team, was also the coach of the "B" squad.



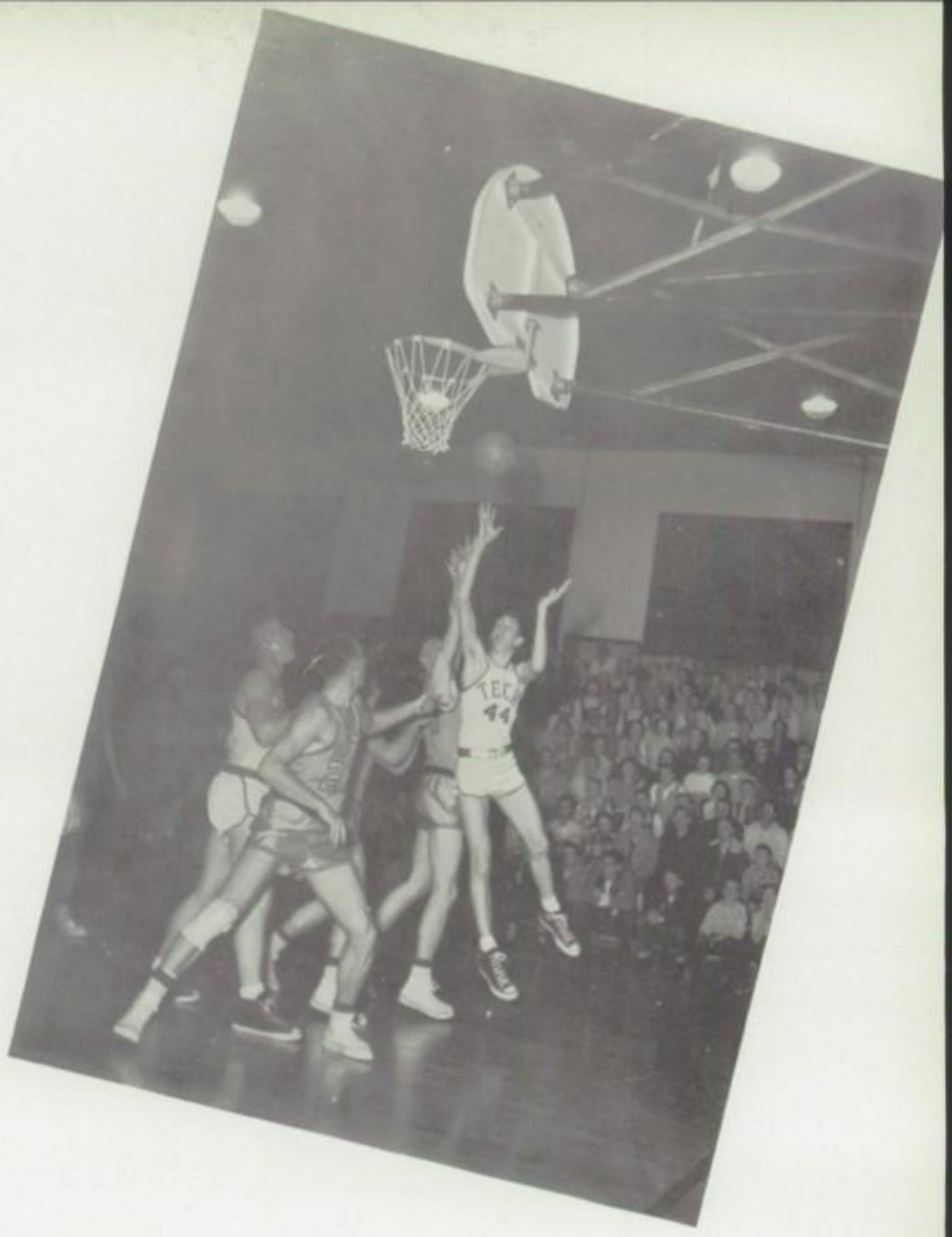
Chuck Neller cracked some more of the all-time school records reaching 1,152 points in three years to set a new record. Chuck hit for a 360 point total and a 15.7 point per game average.



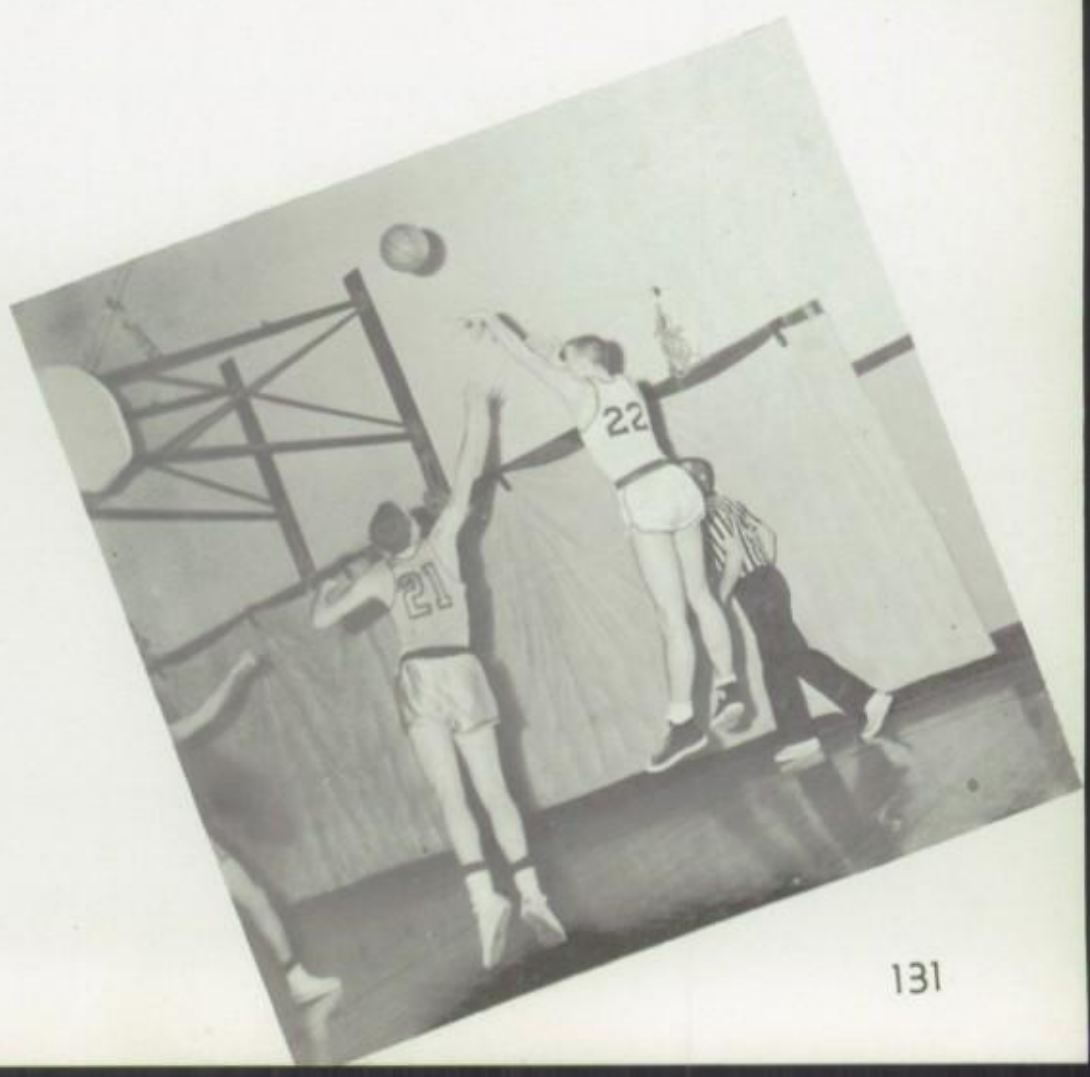




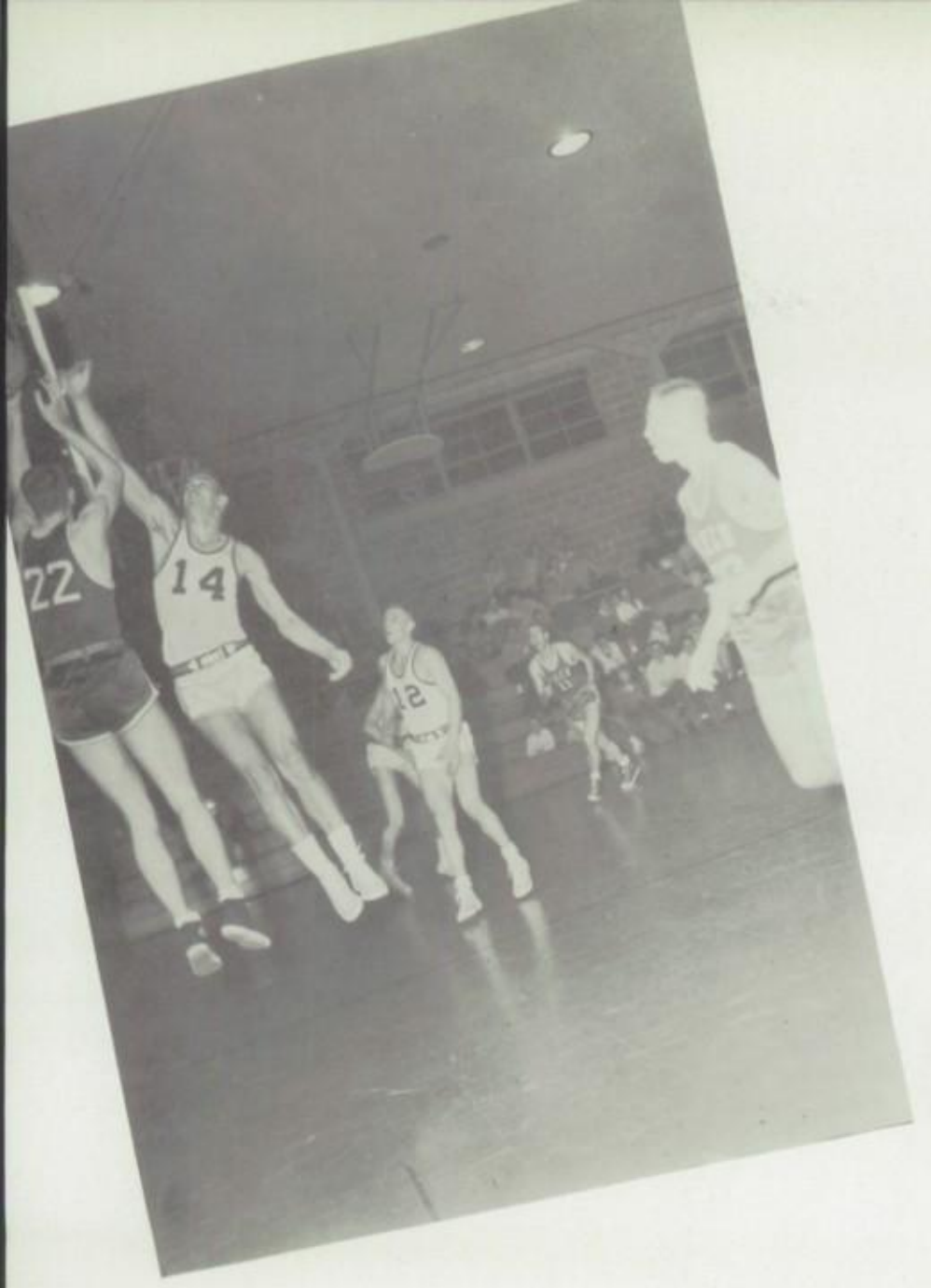
The 1956-57 basketball season was a good season. The team played very well and represented the school admirably. Although the season's record was one of 11 wins against 12 losses and the SDIC record was again 7 wins against 9 losses and only good for sixth place, the full picture is not shown in mere percentages. With one senior back to start the season, three juniors, two sophomores, and a host of new material, the Hardrockers did a fine job in spite of a lack of height.

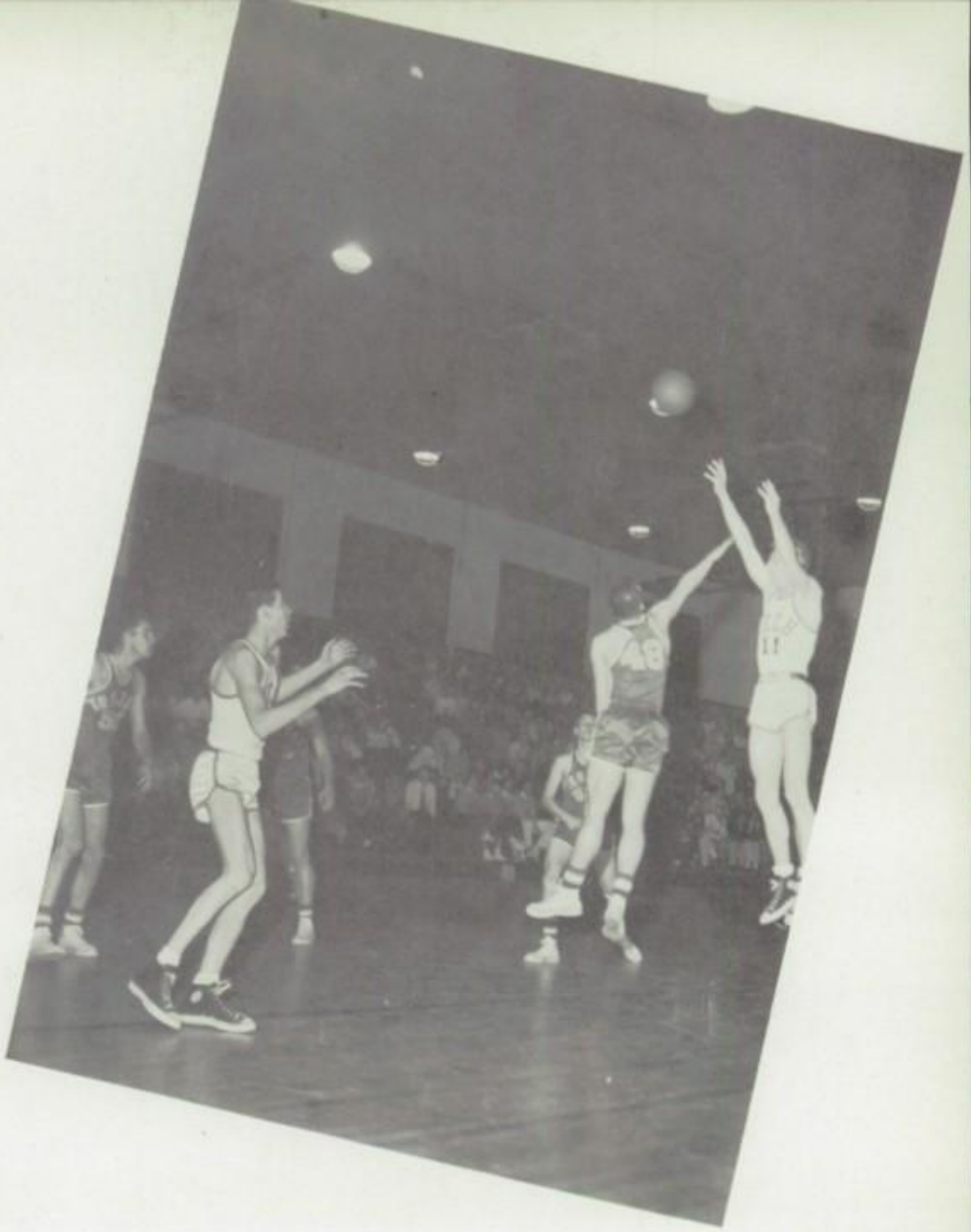


The highlights of the season were the 92-69 blasting of a strong Chadron team and a split with our old rivals B.H.T.C. Also the first INVITATIONAL HARDROCKER TOURNAMENT was instigated and four states were represented in it — Chadron (Nebraska), Carroll (Montana), Jamestown College (North Dakota) and South Dakota Tech (South Dakota). The Hardrockers went down in defeat at the hands of Chadron in the finals of the tourney 70-68, but the tournament was a huge success and should be the start of a fine annual tourney.



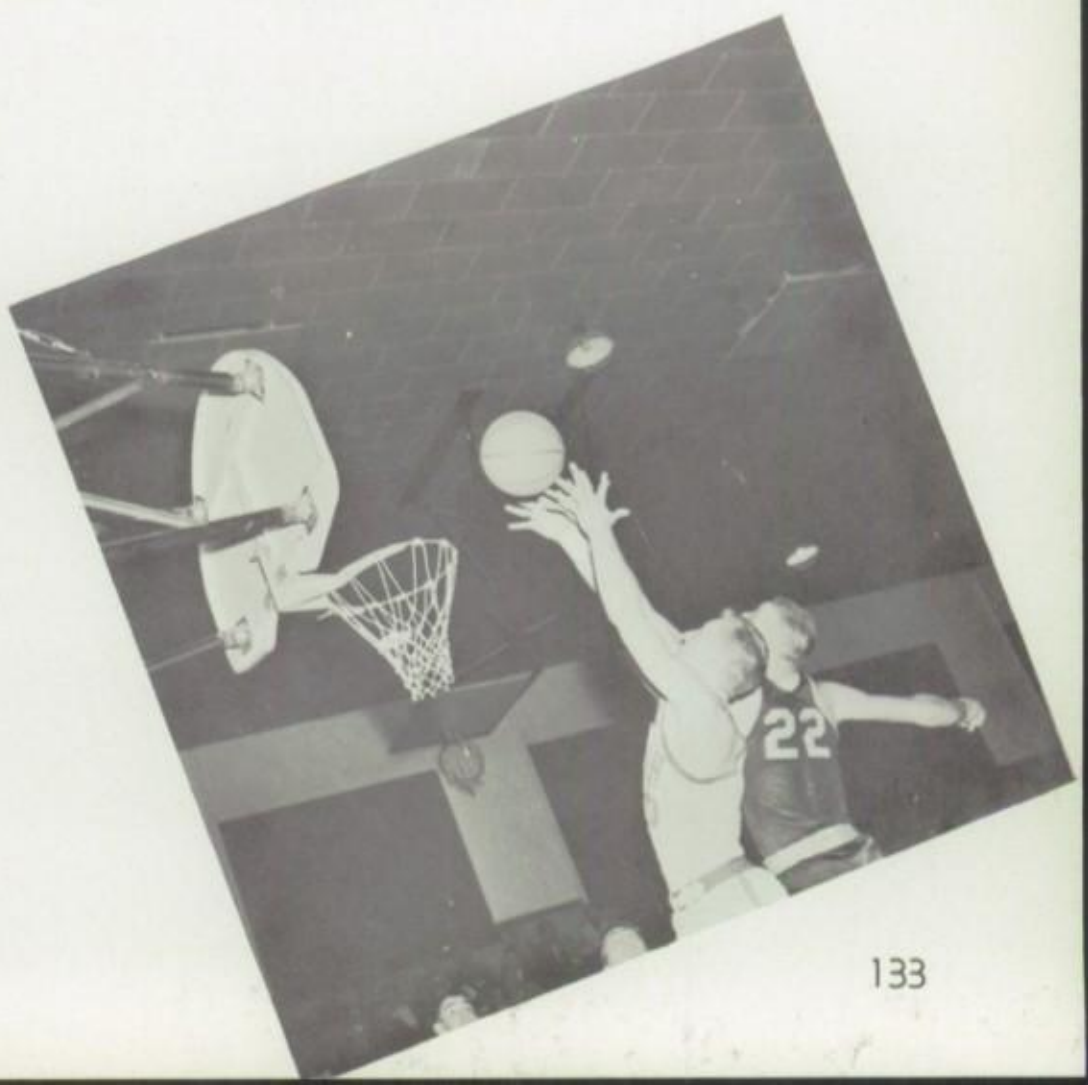
On the first grueling road trip, the Engineers split the four games winning a thriller from Southern 92-89 highlighted by the balanced scoring of the Miners and Les Larson's brilliant shooting of 13 field goals on 18 attempts. Against the SDIC Champions, Northern Teachers, the Hardrockers played on even terms for the regular playing time, but lost the squeaker in the overtime. The first Huron game was a beautifully played game that could have gone either way and was dropped by one point 63-62. This was truly a fine team that made up for size in hustle, spirit and good outside shooting.

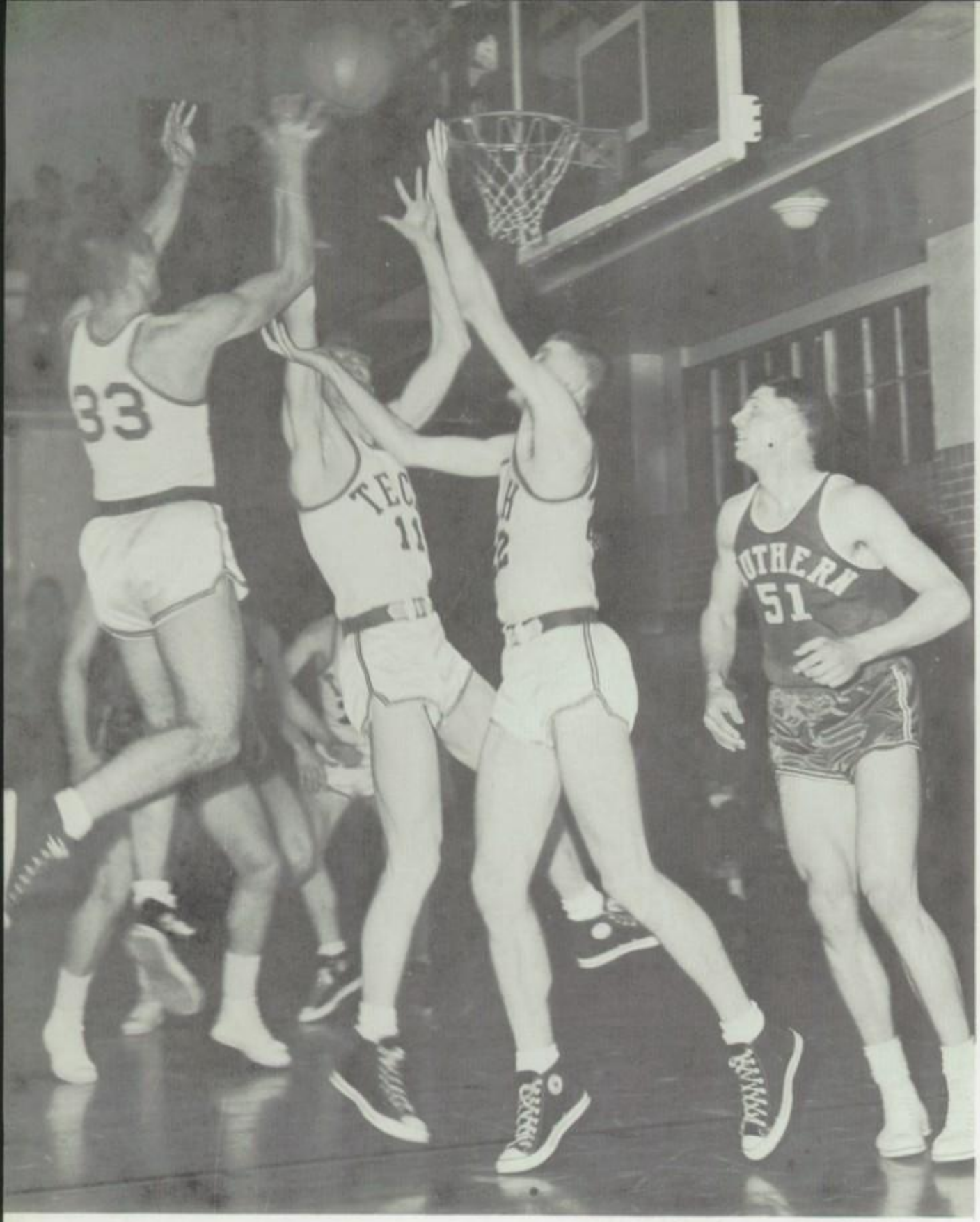


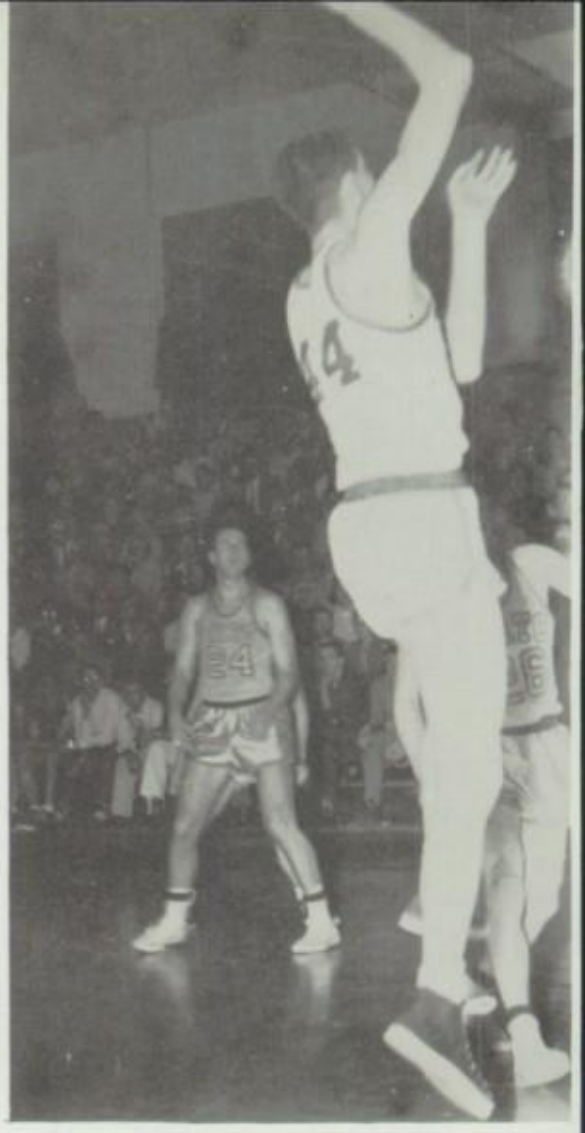


The future looks pretty good as Captain Don Stork is the only one to be lost via graduation. Chuck Neller should have his best year next year and Paul Clare zoomed into prominence in mid-season and should be a power next year. Les Larson and Dick Lee will be back to bombard the opponents from out front with their jump-shooting and Bob Kelley, Darral Brooks, Dave Brost should round into form to provide some of the balance needed for the long haul.

Several freshmen showed promise and could help a great deal now that they have college experience. Ray Platt, Paul Wolf, Wendell Ferguson, and Dale Kjerulff could enter the picture.

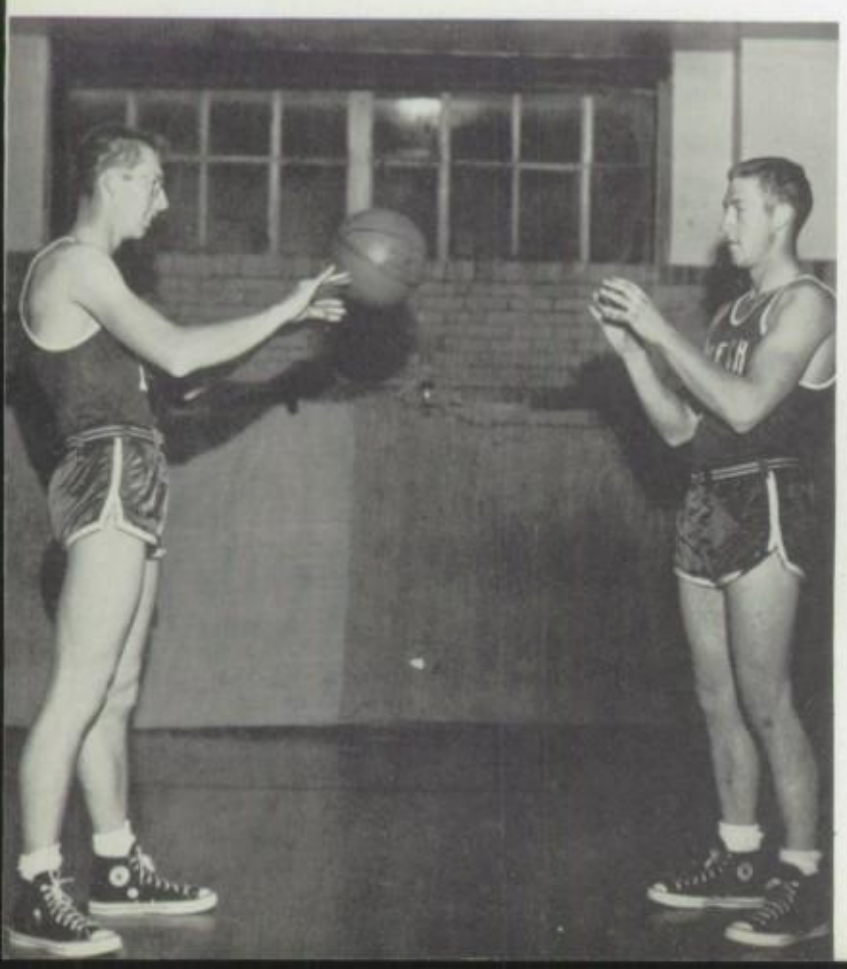




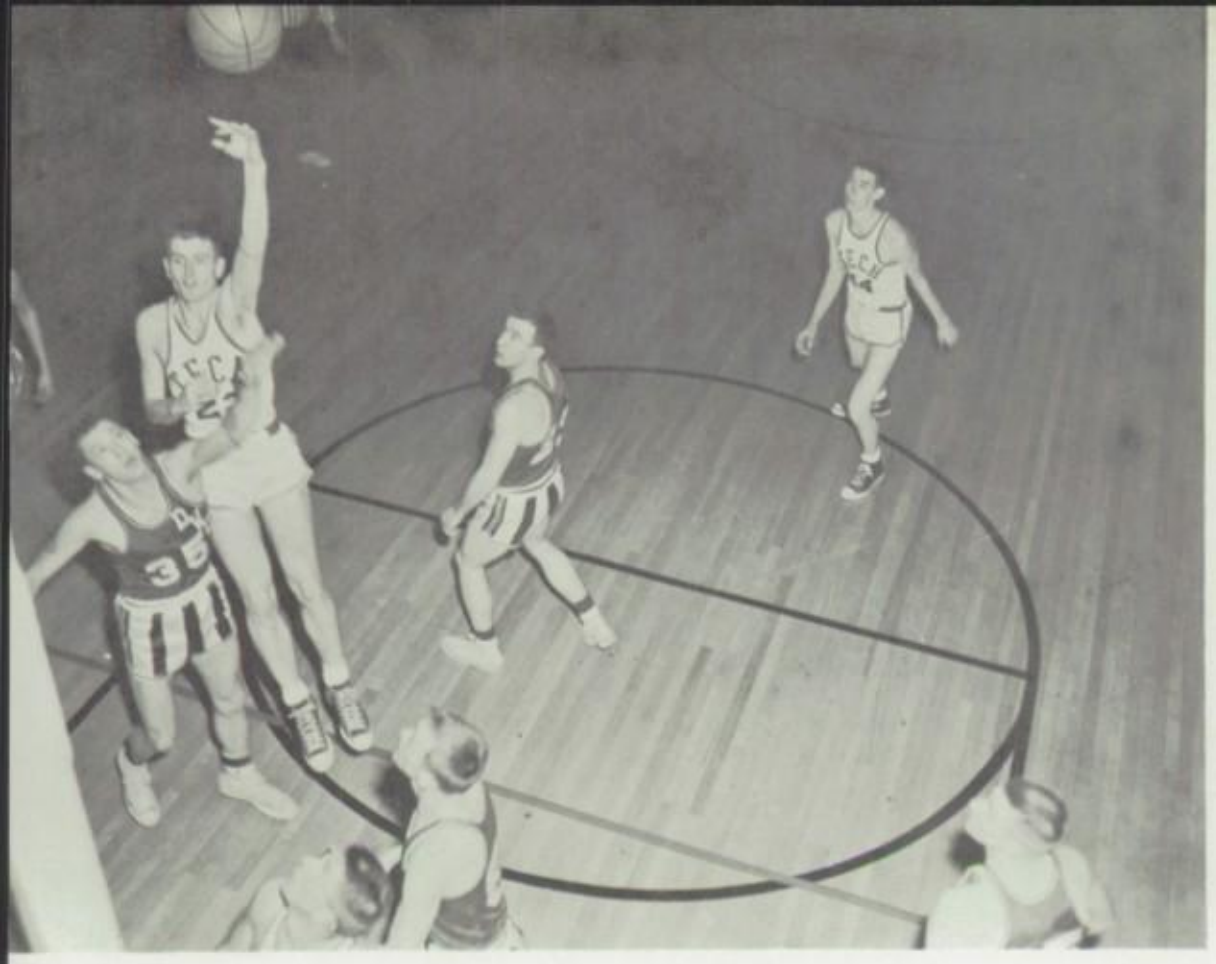



Stork shoots for two.

Bet Mines has this rebound.



Left: The Neller brothers. Right: Big Dan scores.



Paul cans one.

Captain Stork receives runner-up trophy for invitation tourney.

Mal jocks another one.

Left: Two? Right: Versatile Neller scores with a left.

Neller fights for a rebound.

Back row—Coach Englund, W. Potter, L. Rempher, J. Miles, D. Mundt, J. Ort.
Middle row—F. Coulson, C. Parks, D. Roberts, D. Pesall, H. Thomas.
Front row—D. Eggers, R. Linch, J. Pletka, L. Jones, K. Jones.

## SEASON RECORD

| | | | |
|---|---|---|---|
| S. D. Mines | 5 | Montana State | 35 |
| S. D. Mines | 0 | Mankato Teachers | 40 |
| S. D. Mines | 5 | South Dakota State | 33 |
| S. D. Mines | 14 | Rapid City High | 21 |
| S. D. Mines | 0 | Colorado Mines | 34 |
| S. D. Mines | 18 | Denver University | 18 |
| S. D. Mines | 7 | Montana State | 30 |
| S. D. Mines | 2 | Newcastle High | 27 |
| S. D. Mines | 20 | Rapid City High | 15 |
| S. D. Mines | 3 | Newcastle High | 30 |

Individual season records posted by some of the squad were quite impressive considering the handicaps involved. Herbert Thomas won 5 out of 10, Darrell Roberts won 1 out of 4, Francis Coulson obtained 4 wins out of 7 matches.

Herbert Thomas and Willard Potter were selected as co-captains of the squad.

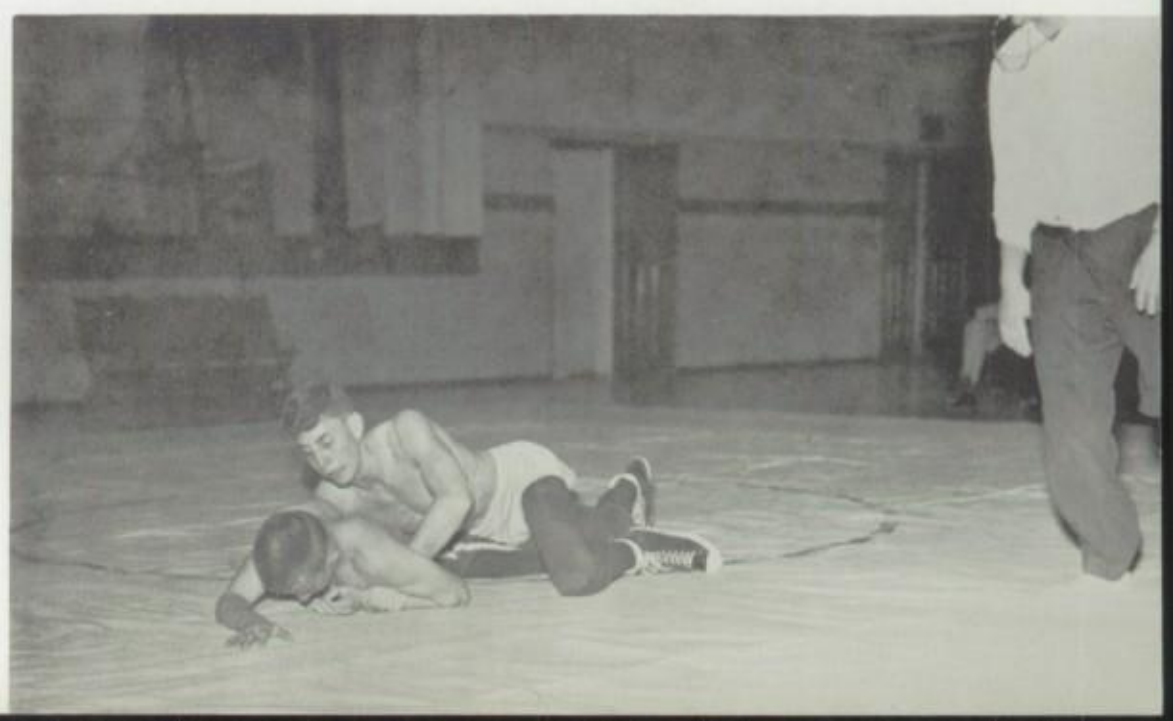
The progress of the Hardrocker wrestlers was outstanding. If the mortality rate of the present squad isn't too great, some fine wrestling is in store for the fans next season.

Coach Englund and part of the squad looking on.

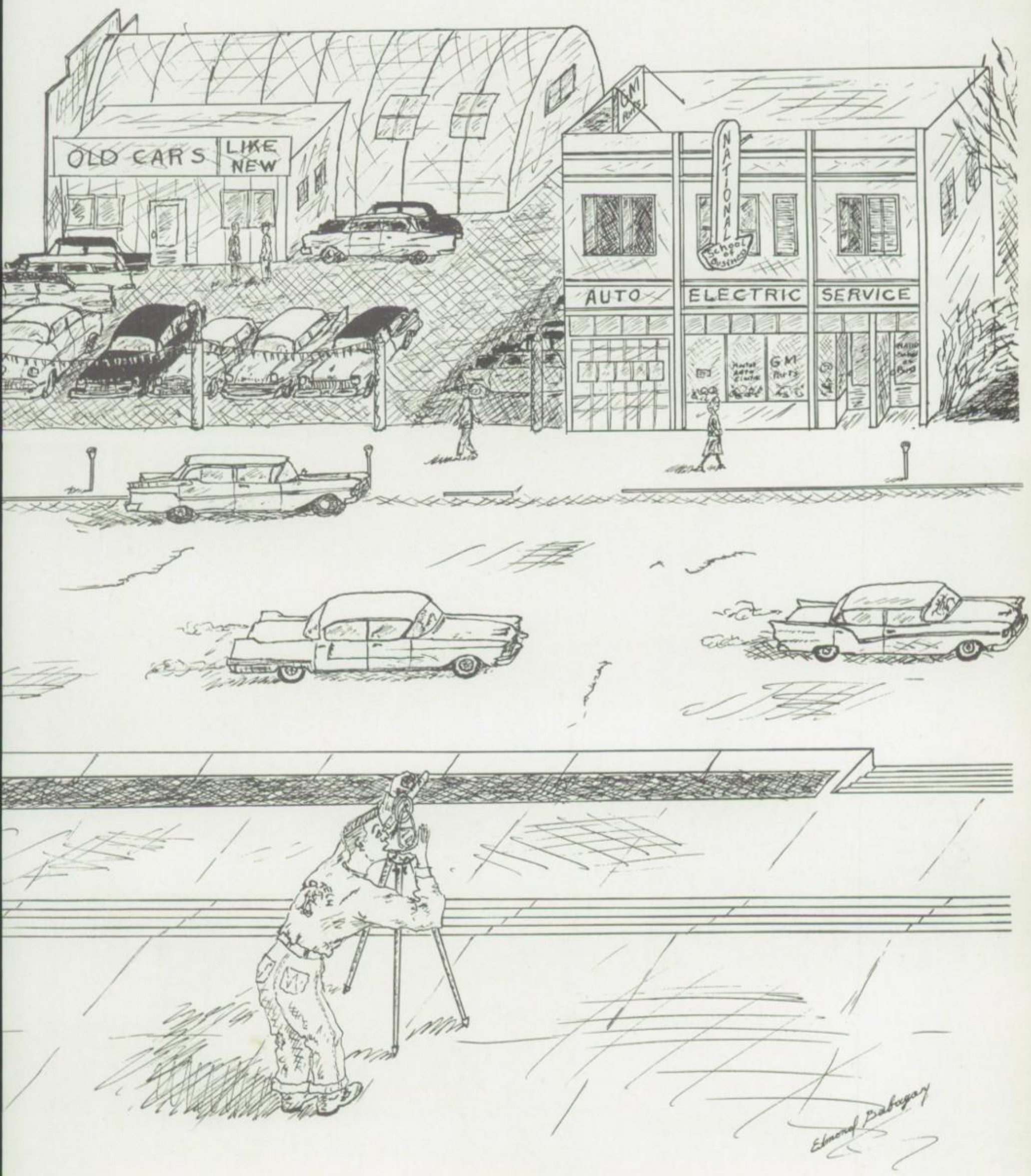
Coach Homer Englund's inexperienced crew of Hardrocker wrestlers opened their season against Montana State on their own mat December 10th. Willard Potter, 123, of Seneca was the only returning letterman from the previous year's squad. Other seniors on the squad included Charles Parks, 147, Rapid City; Herbert Thomas, 157, Pierre; Dennis Pesall, 167, Lily. Junior candidates included Joseph Pletka, 167, Tyndall; Darrell Roberts, 177, Salem, Ill.; Francis Coulson, 130, Maiden Rock, Wis.

**Coach Homer Englund**

Sophomores on the squad were Ronald Linch, 137, Linch, Wyo. and Harold Ehrman, 123, Artas. The Freshman turn-out was excellent with 41 initially reporting for workouts. However, the mortality rate was rather high and the end of the season found the following remaining on the squad: John Miles, heavyweight, Watertown; LeRoy Jones, 157, Miller; Kentner Jones, 147, Miller; David Eggers, 130, Huron; Tom Oliva, 157, Huron; Robert Schamber, 167, Rapid City; David Mundt, 167, Canton, and Wayne Kingsbury, 130, Kimball.



# ACTIVITIES


OLD CARS
LIKE NEW
GM Parts
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School of Business
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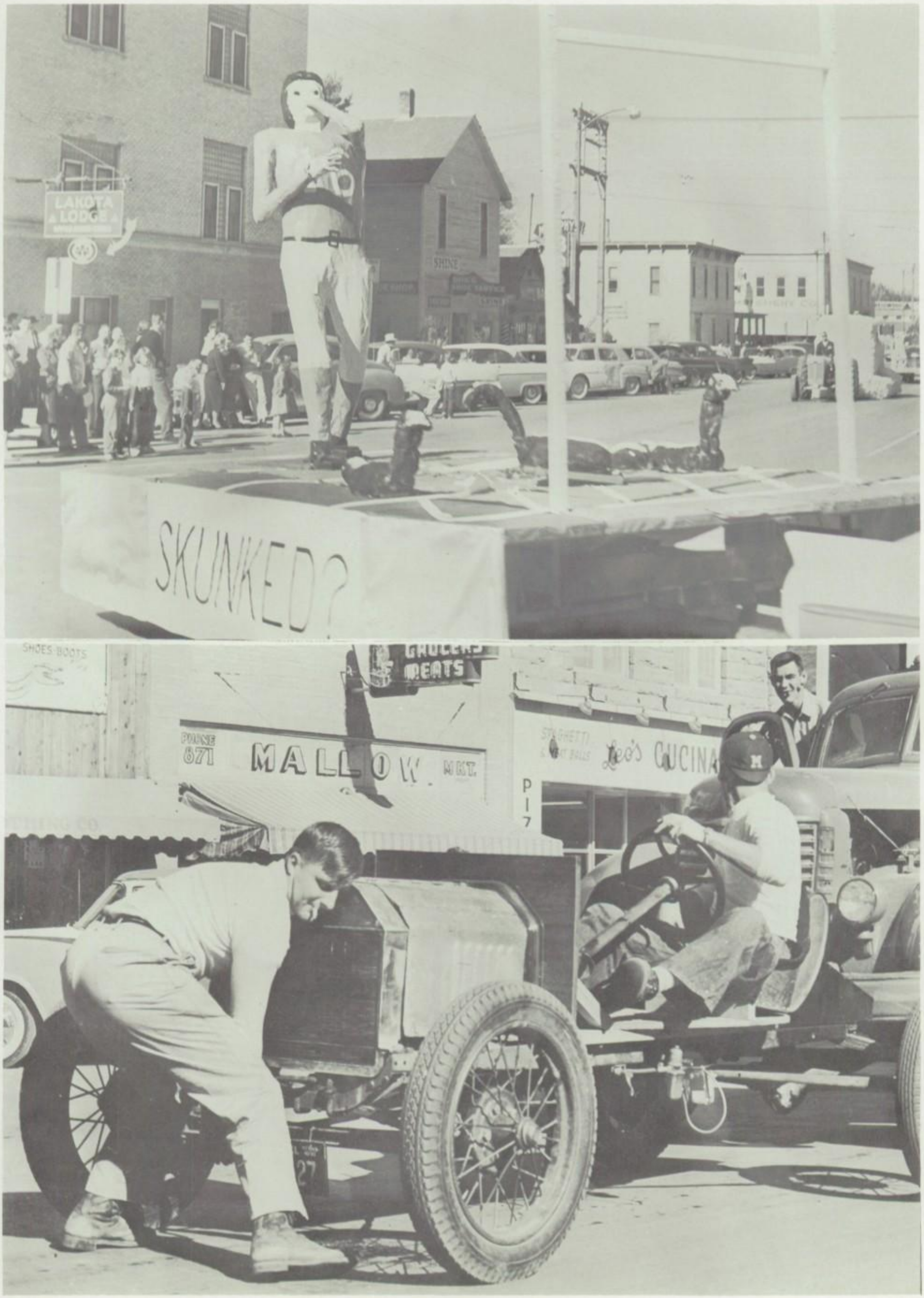
ELECTRIC
SERVICE
GM Parts


LAKOTA
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SHINE
SKUNKED?
SHOES-BOOTS
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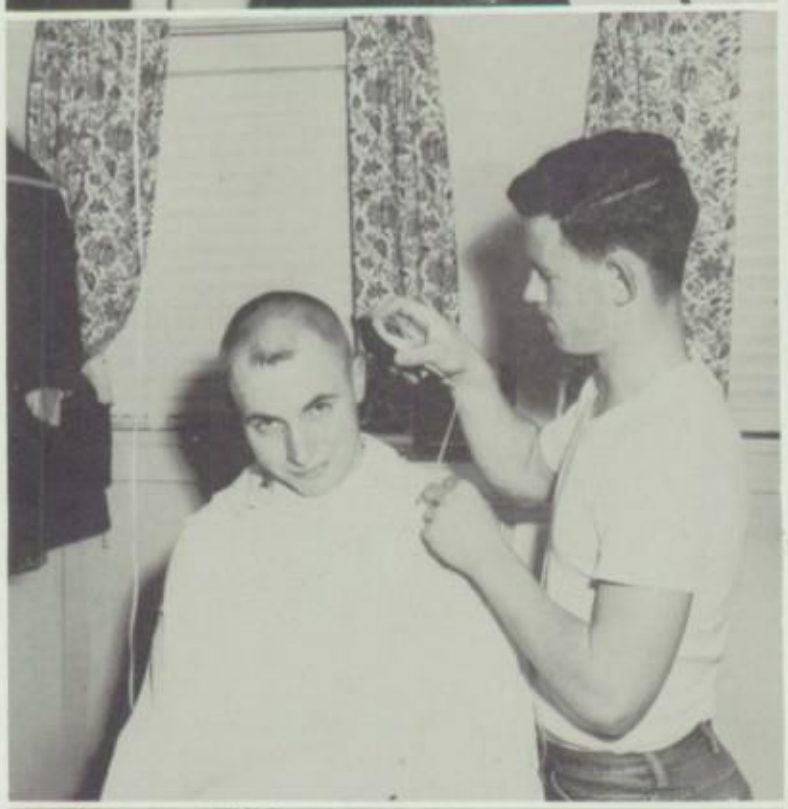
MALLOW
MKT.
SPAGHETTI
Leo's CUCINA
P17

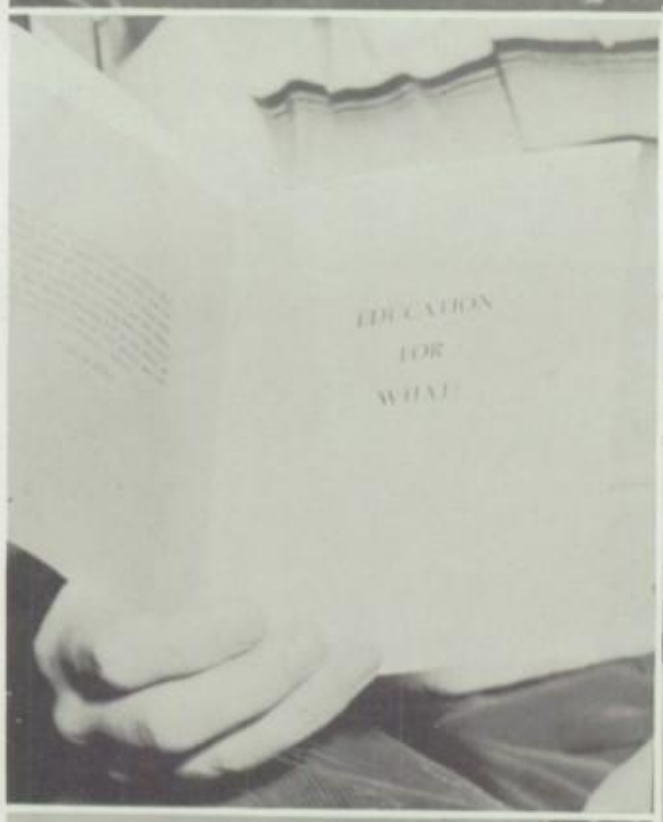
31

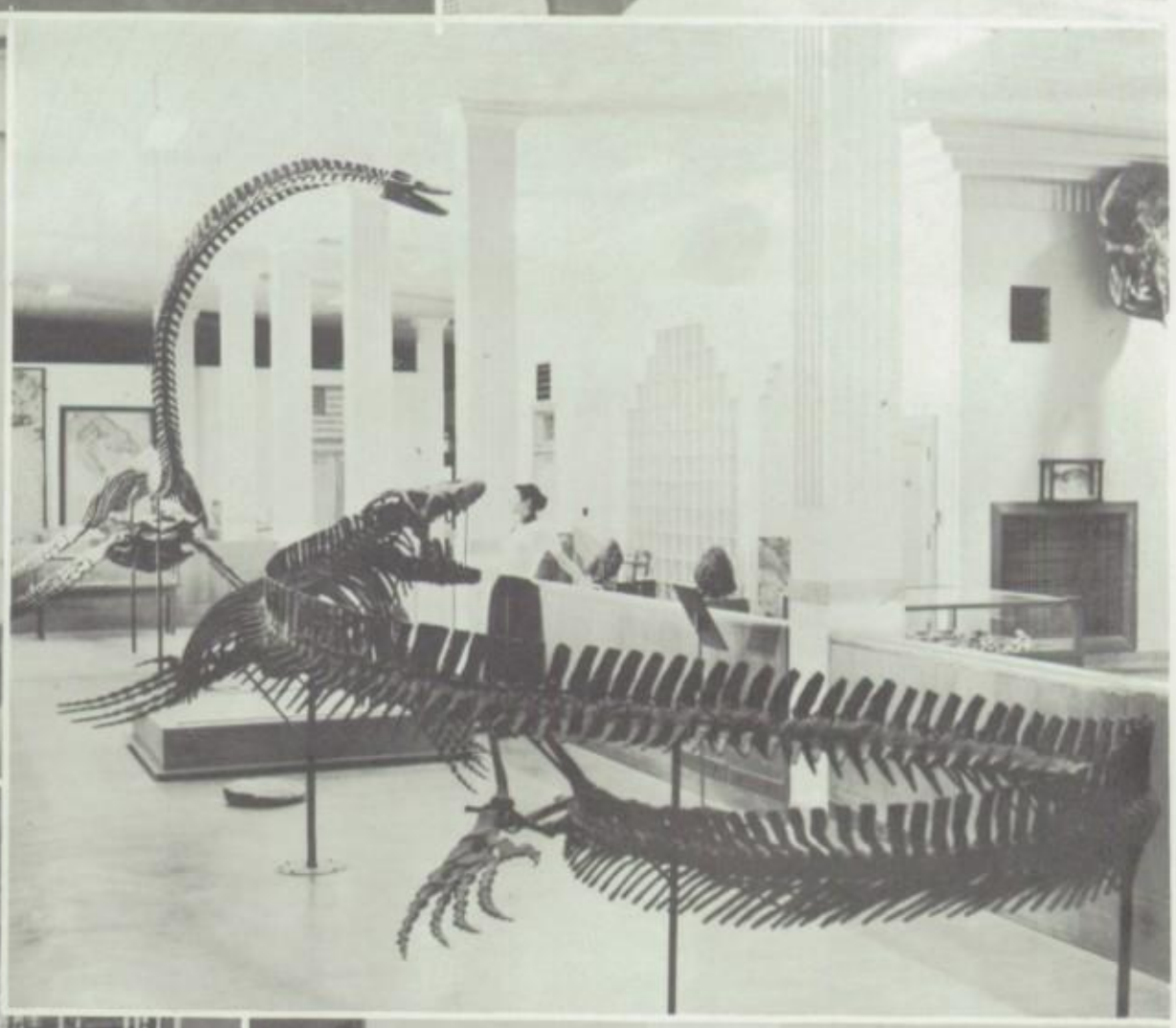
KRSD
SKUNKED?

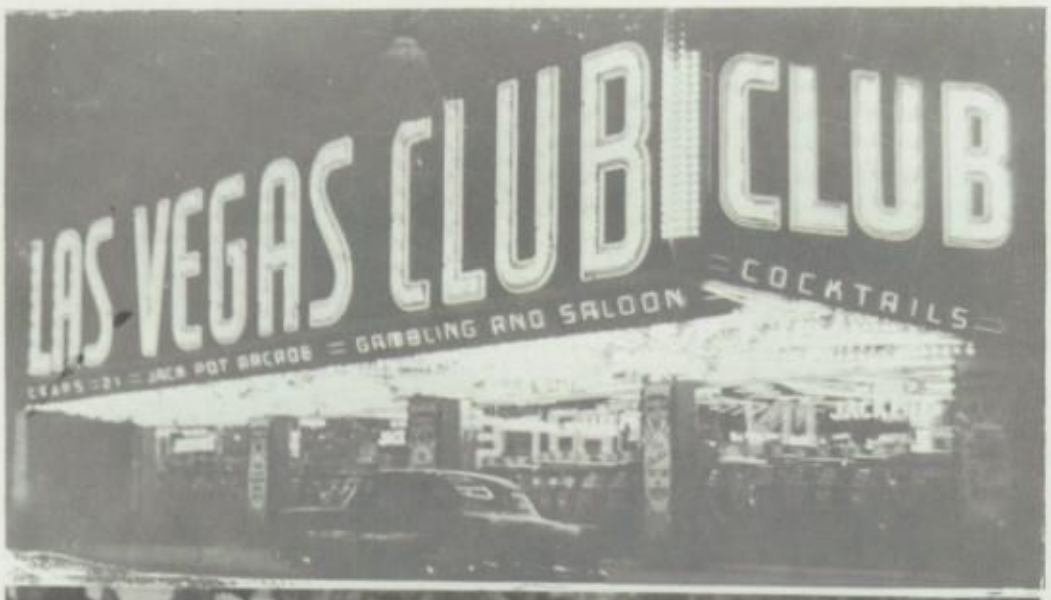


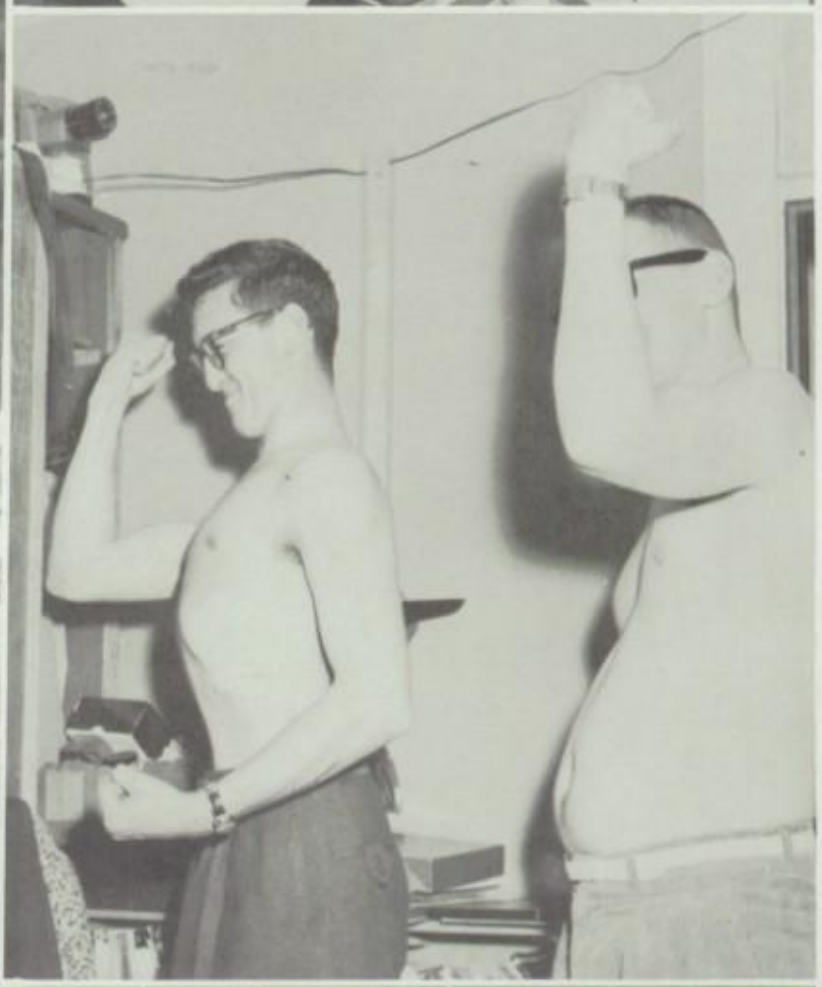
KRSD
TROUBLE A BREW'IN FOR THE SCALPERS

TECH


EDUCATION
FOR
WHAT




LAS VEGAS CLUB
CLUB
COCKTAILS
GAMBLING AND SALOON



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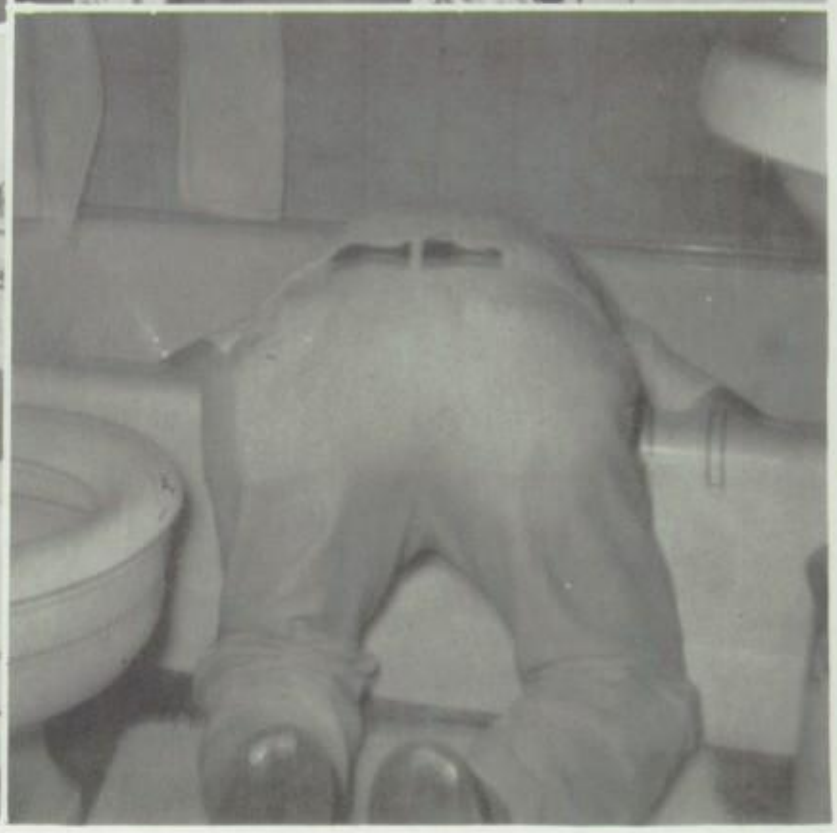

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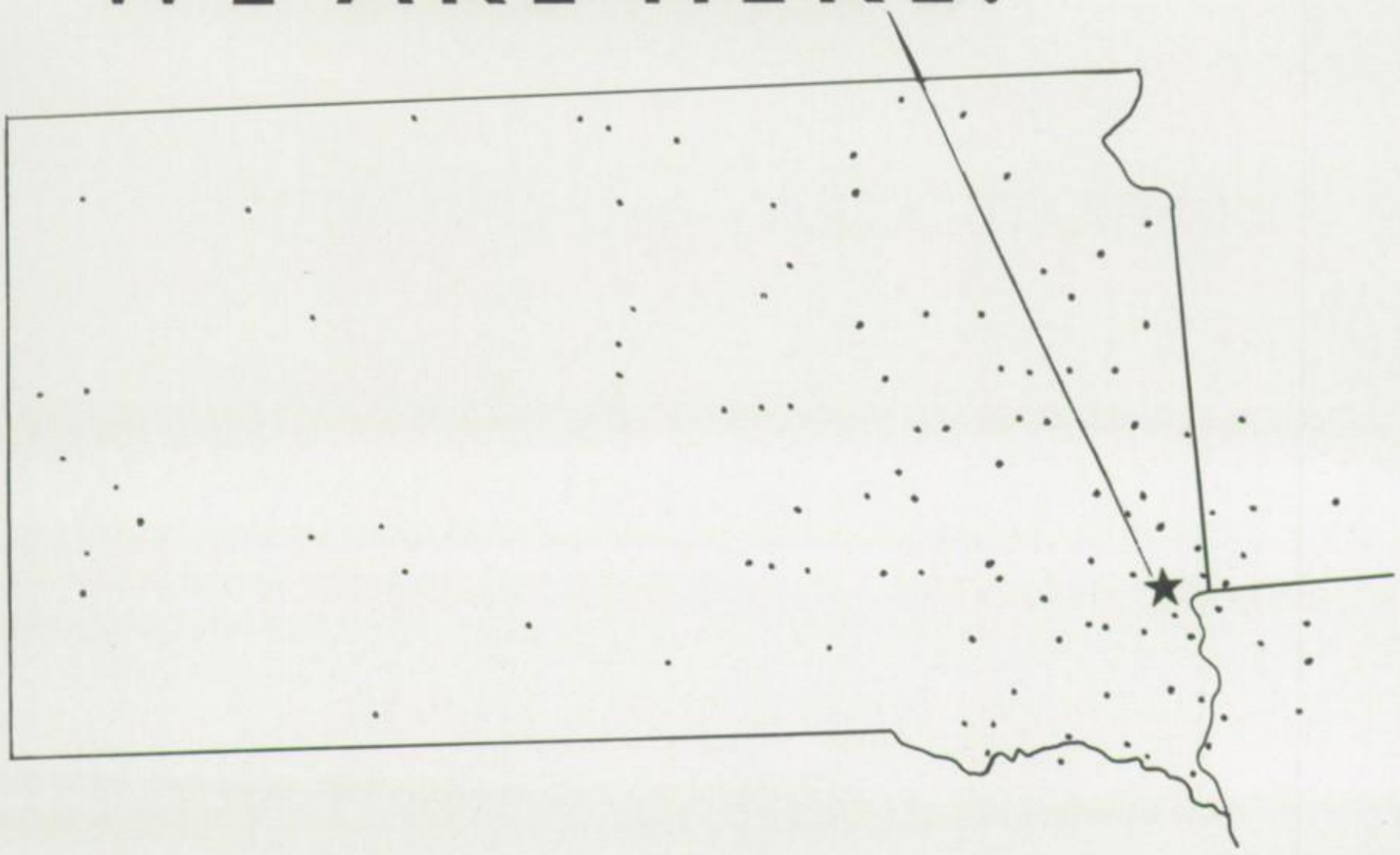

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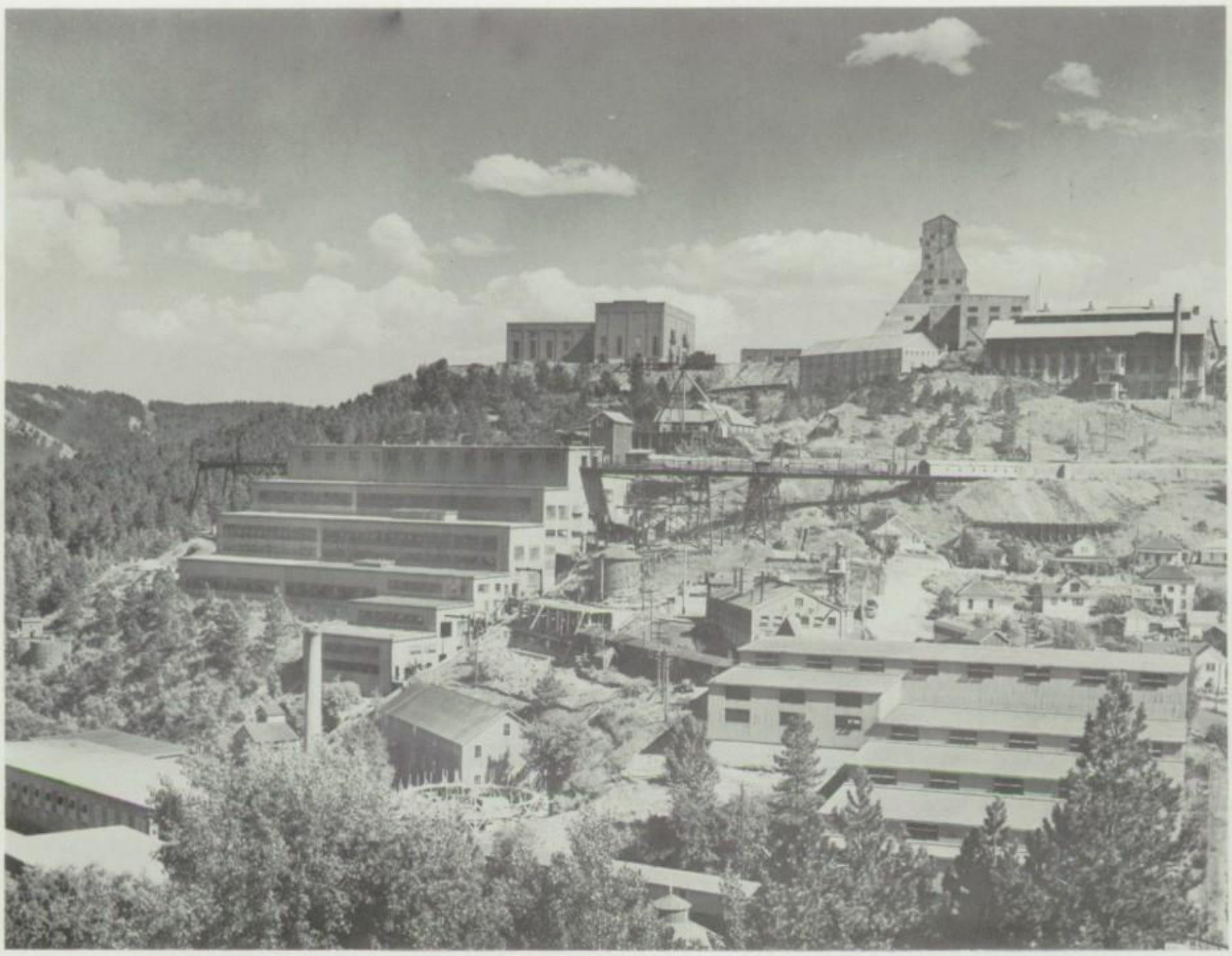

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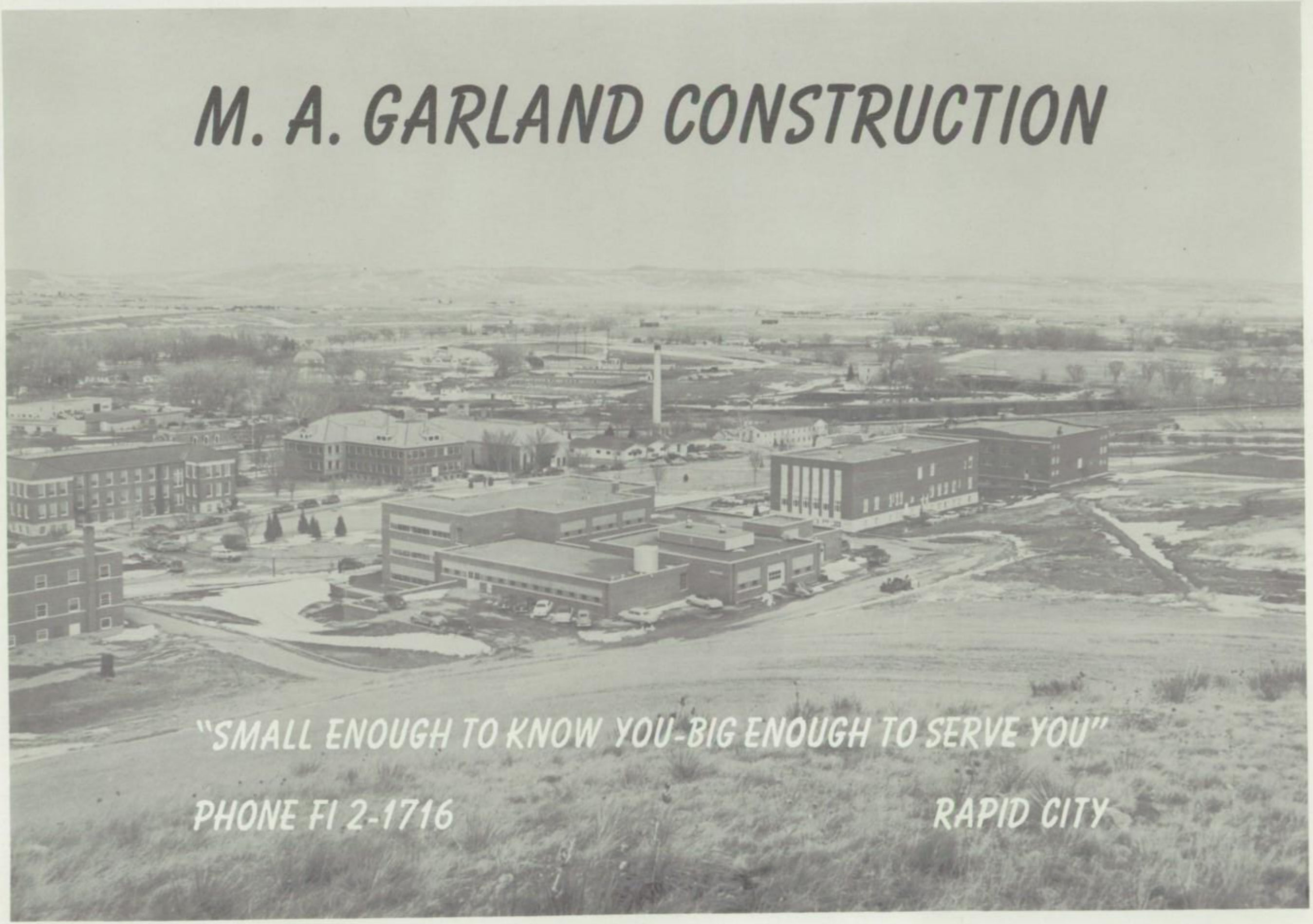

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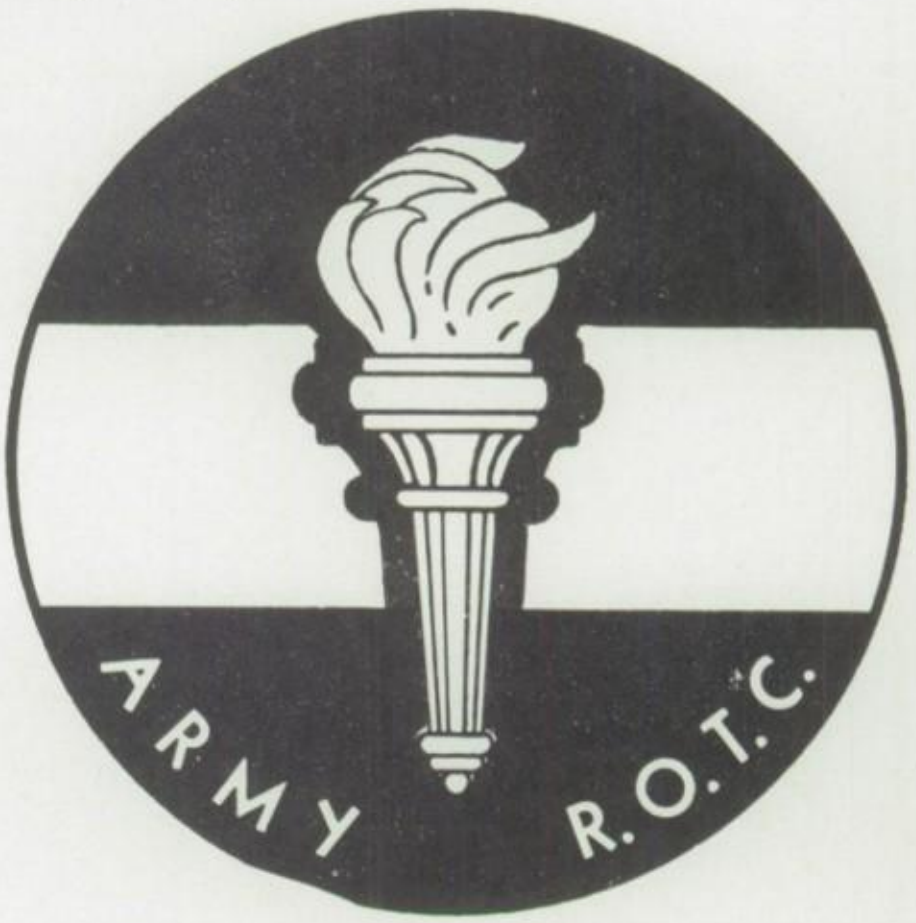


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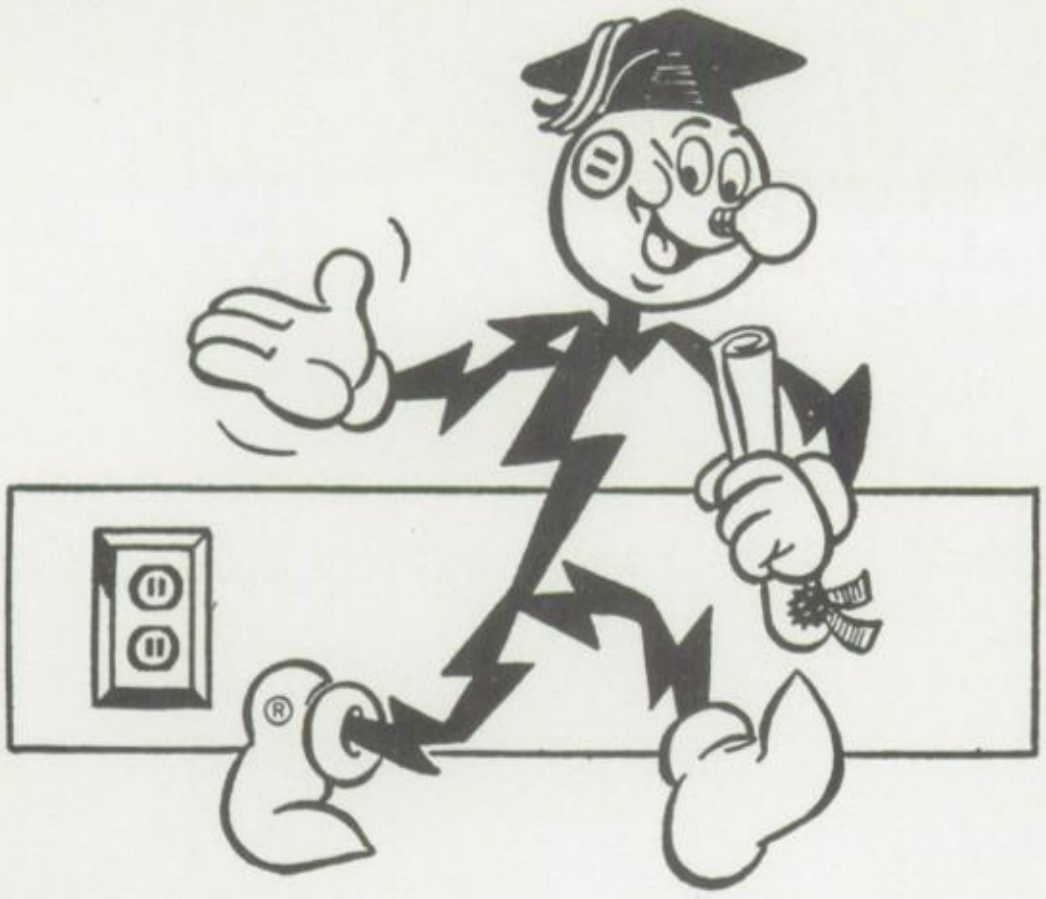

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# In Conclusion

This page marks the end of your annual. We hope that time will mellow the many goofs we made, so that you will enjoy reading this ENGINEER as much as we did when we put it together.

To you seniors, we hope this book will record your final steps among your many friends. To you underclassmen, we hope this yearbook will serve as an incentive as well as a record of activities.

We wish to take this opportunity to extend our sincere thanks to our hard-working staff and all the rest of you for your tolerance and cooperation.

J. Keith Carriere, Editor

Wayne Burk, Business Manager